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Maine Mining Journal v5 [January 13, 1882 - April 21, 1882]

E M. Blanding

W F. Blanding

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Maine Mining Journal.

DEVOTED TO THE MINING AND INDUSTRIAL INTERESTS OF THE NEW ENGLAND STATES AND BRITISH PROVINCES.

[Entered at the Post Office in Bangor, Maine, as second-class mail matter.]

5.—2.—107.

BANGOR, MAINE, JANUARY 13, 1882.

{ \$2 per Year;
6 Cents per Copy.

W. FRANK STEWART,
Practical Geologist and Mining Engineer.

Parties who may desire my services as a mining geologist, in any portion of North America, can confer with me by writing to the care of the Mining Record, No. 61 Broadway, New York; or to the MAINE MINING JOURNAL, Bangor, Me.

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C. W. HOBBS, Secretary.

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SAMUEL STERNS, Vice President.

JOHN R. MASON, Secretary and Treasurer.

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OFFICE.....BANGOR, ME.
YES AT.....BLUE HILL, ME.

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Treasury Fund, 30,000 Shares.

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Office, 11 CENTRAL STREET,

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We shall make our paper more interesting than ever, and possibly larger, its contents will be varied so that men of all occupations may find something of interest in its pages each week. The MINING JOURNAL will continue to report the progress made in the various mines throughout the New England States and Provinces and will endeavor to bring to the notice of capitalists and the public the immense wealth of these Eastern Mineral Fields.

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CHARLES K. MILLER, Supt., Camden.

EXETER SILVER MINING COMPANY,
Exeter, Me.
Capital, \$500,000. Shares \$5 each, unassessable; 40,000 shares in the Treasury.
President, D. N. Estabrooks; Vice President, J. Y. Richardson; Secretary and Treasurer, J. A. Blanchard. Directors—D. N. Estabrooks, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Laue, of Oldtown; — Sargent, of Brewer, and Charles Greenwood, of Corinna.
Office at Oldtown, Me.

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Bluehill, Me. Incorporated July 1, 1881.
Capital, 500,000 Shares, \$5 each; assessable.
President, A. E. Herrick, Bluehill, Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

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Incorporated Feb., 1880.
Capital, \$500,000, divided into 100,000 shares, forever unassessable.
Company's office at the Mine, West Sullivan.
President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Farnum, F. W. Morrill and F. S. Tattle, Boston; A. A. Hayward, Bar Harbor, Me.
A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emory C. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland; Roderick H. Candage, of Blue Hill.

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Organized under the laws of the State of Maine. Capital Stock \$500,000; Number of Shares 100,000; Par Value \$5; Full paid and forever unassessable. Treasury Fund 20,000 Shares.
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MCFARLAND SILVER MINING COMPANY
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

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Treasurer's and Transfer Office, 335 Washington St., Boston.

ROBERT EMMETT SILVER MINING CO.
Egypt Bay, Hancock, Me. Incorp. July, 1879
Capital, \$400,000; Shares, \$10 each.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett. P. MULLAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

SUNBURST COPPER AND SILVER MINING CO.
Of Surry, Me. Incorporated, February, 1881.
Capital, \$500,000; Shares \$1.00, unassessable; Treasury Fund, \$68,500 Shares.
President, Jas. W. Davis; Treasurer and Secretary, M. Donelan; Directors—Jas. W. Davis, M. Donelan, Roscoe Holmes, Guy Mullan, H. B. Mason, L. W. Hodgkins, P. Mullan.
P. MULLAN, Supt.
Office—Ellsworth, Me.

Annual Meeting.

BANGOR, Jan. 2, 1882.
The annual meeting of the Stockholders in the Harrington Silver Mining Company will be held at the office of the Secretary, at Bangor, Maine, on Tuesday, January 17, 1882, at 3 P. M., for the purpose of electing officers and the transaction of such other business as may come before the meeting.

F. M. HERSEY,
Secretary.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Stewart Copper Mining Co.

— OF —

BLUE HILL, MAINE.

P. O. Box 515.

BANGOR, Jan. 2, 1882.

Notice is hereby given that an assessment of ten cents has been levied by the Directors upon each share of the capital stock of the Stewart Copper Mining Company, and the same is made payable January 16, 1882, to the Treasurer at his office in Bangor, Me.

The transfer books will be closed Jan. 9, 1882, after which date no stock will be transferred until the assessment upon it has been paid.

By order of the Board of Directors,

C. F. BRAGG, Treasurer.

P. S.—Stockholders are requested to send in their certificates to be marked assessment paid.

ASSESSMENT NOTICE.

OFFICE OF THE

North Castine Mining and Smelting Co.

BANGOR, Jan. 9, 1882.

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of two cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, January 15th, 1882.

Any stock upon which the assessment shall remain unpaid on the 15th day of February, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

By order of the Board of Directors,

S. P. JOHNSON, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE

TWIN LEAD MINING and SMELTING CO.

OF MAINE.

4 MAIN STREET,
BANGOR, Dec. 26, 1881.

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, January 14th, 1882.

Any stock upon which the assessment shall remain unpaid on the 13th day of February, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates, that payment may be endorsed thereon.

By order of the Board of Directors,

JOHN R. MASON, Treasurer.

NOTICE.

Sealed Proposals for the contract per foot of about thirty feet of vertical work, and about fifty feet of level drift at the **GOLDEN CIRCLE MINE**, Sullivan, Maine, will be received to January 20th, 1882, the Company reserving the right to reject any or all bids. Specifications for said work may be seen at the Company's office.

Portland, Me., Jan. 9th, 1882.

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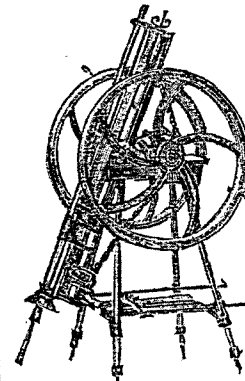
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**SPECIAL MEETING**

Of the Stockholders of the

Hercules Mining Company,

A special meeting of the Stockholders of the Hercules Mining Company will be held at the office of the President, No. 539 Congress Street, in Portland, Me., on Tuesday, January 17th, 1882, at 10 A. M., to act upon the following propositions:

1. To see what course the Stockholders will take with reference to selling the property of the Hercules Mining Company to any person or persons, or corporation, and if so decided, at what price and on what terms of payment.

2. To act upon any other business that may legally come before the meeting. By order of the President.

B. BARNES, JR.,
Secretary Hercules Mining Co.

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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING,)
W. F. BLANDING,) EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. Our Eastern territory is sadly in need of such an industry as mining for the precious and useful minerals may become, if carried on in the light of reason and common sense. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL. It will look to all who have the truest interests of State and Nation at heart, to support it in its purpose.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Information relating to mining properties or mineral lands which may be sent in by parties interested will cheerfully be given a place in these columns, *over the writer's signature*, whenever space will permit. The JOURNAL cannot and will not endorse any opinions thus expressed, except after a personal examination of the mine or property in question by some member of its staff.

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THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JANUARY 13, 1882.

At the annual meeting of the Pacific Bank stockholders, in Boston on Tuesday last, it was decided by a nearly unanimous vote to assess the new stock as well as the old to the tune of 100 per cent.

The Senate Committee on Mines and Mining is now, for the first time, composed mainly of mining men—Messrs. Hill of Colorado, Jones of Louisiana, Fair of Nevada, Miller of New York, Cameron of Pennsylvania, Hampton of South Carolina and Van Wyck of Nebraska. The House Committee consists of Messrs. Van Voorhis and Wood of New York, Bingham and Brumm of Pennsylvania, Young of Ohio, Davis of Illinois, Calkins of Indiana, Fulkerson of Virginia, Hubbs of North Carolina, Berry of California and Cassidy of Nevada.

Mining companies should see to it that their officers comply with all the requirements of the law, otherwise they may experience considerable trouble and annoyance. Attorney General Cleaves has commenced proceedings in behalf of the State against some of the corporations failing to make annual returns to the Secretary of State, to enforce compliance with the statutes. If the returns are made within thirty days, costs only will be collected. And this reminds us that the time is now at hand for the publication of semi-annual statements, which the laws of the State require; as yet very few mining companies have come to time. It will do to neglect these matters.

The eastern mining papers seem to be waking up to the utter uselessness of their Mining Exchanges, and to the actual mischief they are doing to the mining interest. One of them observes that of the 90,000 shares sold on the previous

day, there were not 3,500 shares of any dividend paying mining company sold: the balance, 86,500 shares being stocks of properties of unknown value. On these sales 700 brokers are supposed to make their living. How they do it is a miracle. Yet they have largely brought the evil day on themselves. The brokers have always been ready to turn an honest penny by shorting any stock which happened to lack support, and to give the mining interest a fatal blow in order to realize a few dollars.—[Leadville Circular.]

The annual meeting of the Bangor Board of Trade was held in the Common Council Room on Monday afternoon last, President Lord presiding. Officers were chosen for the ensuing year as follows: President, Henry Lord; Vice-President, Thomas J. Stewart, John S. Jeuness and William H. Flowers; Treasurer, Silas C. Hatch; Board of Managers, R. S. Prescott, T. G. Stickney, W. T. Pearson, John L. Cutler, I. W. Coombs, G. W. Merrill, J. S. Wheelwright, James Tobin, Thomas N. Egery and H. B. Williams. Charles S. Pearl was subsequently chosen Secretary. No action of any special interest was taken, and the Board adjourned to meet at the same place on January 23, at 3 P. M., when matters of public interest will be discussed.

Western ideas of justice are peculiar, to say the least. A recent decision of a Western court is to the effect that if a man calls another a thief he cannot be mulct in damages, because such an assertion only amounts to an "emphatically expressed certain conviction." A St. Louis judge has just decided that when a man has reason to believe another has made threats against his life, he has a perfect right to procure a weapon, "go gunning for him" and shoot him at sight. And now a San Francisco court decides that a newspaper has the same right to sell its opinions and influence as a merchant has to sell his goods, or a lawyer or doctor his services. Decision was rendered in a suit for libel, the editor of the Chronicle having declared that the editor of the Bulletin sold the latter paper's influence for \$60,000 to the Pacific Railroad Company.

The Portland Smelting and Reduction Works are rapidly recovering from the effects of the recent disastrous fire. Rapid progress is being made with the extensive additions and improvements now under way, and as the copper smelting department is in active operation the Works present a lively appearance. The new building in process of erection is 140x60 feet in size, being larger than the two buildings destroyed by the flames. Work has been pushed upon this structure and it is now nearly completed. In this new building will be placed the silver works, a large blast furnace and a roasting kiln. The large building damaged but slightly by the fire and now in excellent condition is 100x60 feet in size, and contains the big blast furnace, the immense roasting furnace and two reverberatories. When the improvements now in progress are completed, the Works will be in first-class shape for extensive operations, and a prolonged and successful career is anticipated for them.

The Iron Age remarks upon the outlook and present condition of the copper market as follows: "The market is firm, but without purchasers at the prices insisted upon; 20c

is freely offered for Lake Superior, and people in want of copper would be willing to pay 20 1-4c, but 20 3-4c is asked. We quote the market 20 1-2c. Nothing is doing in 'futures' because none are offered. London cables Chili bars £70 10s, and best selected £76. Messrs. French & Smith, London, in their last monthly circular, express themselves about the metal very correctly, saying that 'there is a decided improvement in the demand in Europe, and as its use must largely enter into all engineering work, and its power of conductivity is so well known, increase of consumption may be looked for.' In other words, the more extensive exploitation of modern invention all over the world has widened the usefulness of copper very materially, and the increase of consumption arising therefrom causes its value to appreciate. Hence the advance we have witnessed in this market from 16c to 20 1-2c since Summer has been natural and unassisted by speculation, which circumstance lends strength and soundness to the situation as it stands."

The Portland Board of Trade held their annual meeting at the rooms of the Association on Monday evening last. From the Secretary's report we learn that the Board now numbers 155 members against 154 last year. The Merchant's Exchange has, at the present time, 156 paying members, the smallest number since its organization. The Exchange has received an average of forty telegrams a day giving the fluctuations of the principal markets in this country and Europe, the marine news, weather reports and important events of common public interest, and its files of newspapers and records of the port, statistics, etc., have been well and fully kept up throughout the year. Notwithstanding these attractions which the Exchange presents for business men, the institution is languishing for want of liberal support, the aggregate receipts for the past year falling about \$200 short of meeting the current expenses. This, as Chairman Rich states in his report, is not creditable to a city of the size, business importance and pretensions of Portland, and there is need of missionary labor in its behalf. Among the subjects which have been profitably discussed by the Board of Trade have been "The Reagan Bill on Inter-State Commerce;" "A New National Bankrupt Law;" "Canadian Reciprocity;" "How Best to Prohibit Adulteration of Food and Drugs;" "Distribution of the Balance of the Geneva Award;" "Exemption of the Atlantic and St. Lawrence Railroad from Taxation, as per Act of the Legislature;" "A State Industrial Exhibition;" and "To Further Perfect the Efficiency of Life Saving Stations."

THE RAILROAD EXTENSION TO ELLSWORTH.

The project for the extension of the Bangor and Bucksport Railroad to Ellsworth has at last taken definite form, and it now rests solely with the residents of that section of Hancock county through which the proposed route passes to say whether the road shall be built. The cost of the extension, exclusive of the right of way, station and freight houses, etc., is estimated at \$300,000. This sum, it is believed, the Railroad Company are willing to invest in its construction, but beyond that they do not care to go. Therefore, if proper encouragement is received from the land owners along the line, it is highly probable the road will be

built; but if the farmers of that section require heavy damages for the privilege of having the value of their lands vastly increased, the project will be permanently abandoned.

It seems to us that the importance of this enterprise to the future welfare of Eastern Maine can scarcely be overestimated. Aside from its mining interests, Hancock county has resources second to none in the State which are yet mainly undeveloped; with fine water-powers, extensive timber lands and a soil well adapted to agricultural purposes, she possesses every facility for profitable industrial and manufacturing enterprise except the one thing needful—easy and rapid transportation to the great market centers. And when her great mining interests, which have already greatly benefited the people of that section and which are soon to take a fresh start and be of permanent and rapid growth, and the unrivalled attractions which her coast line offers for places of popular summer resort, it would seem that a prosperous future must be in store for her if only her people will grasp the opportunities to advance their interests as they are presented. The new railroad, as proposed, would reach within about eight miles of Blue Hill, and a branch road to that promising and important mining center would be but a question of a brief time. An extension to Sullivan, thus tapping another new district and opening up a popular and charming route to Bar Harbor, would also be shortly forthcoming. The further extension of the road along the coast, through the shore towns, to our Eastern boundary, is also one of the things to be looked forward to, and may not be so very far distant in the future.

The enterprise is one in which the business men of Bangor should take a deep interest. Merchants and traders in Hancock county who have been in the habit of buying goods in Portland or Boston would be likely, if the road were built, to make a large share of their purchases in this city, as goods can be sold here as cheaply as in either of the former places, and the cost of transportation would be much less. Furthermore, a visit from Hancock county to either Portland or Boston uses up the best part of a week, while anyone doing business in Ellsworth, Blue Hill, or surrounding towns could come to Bangor, have an abundance of time to transact business and return home the same day. It is not alone the people of Hancock county who are to be benefited; still, as they are the ones most deeply concerned, the success or failure of the project has very properly been left at their disposal. It is for them to say whether they shall have a railroad, with all the benefits resulting therefrom, at no expense to themselves, or not.

Personals.

MESSRS. F. H. WILLIAMS and JOHN S. JENNESS have been visiting Blue Hill during the week.

MR. C. W. AL BURTIS, of New York, is visiting the mining regions of Eastern Maine with a view of purchasing zinc ores, which are in very active demand at the present time.

"BRICK" POMEROY, the veteran editor, has purchased back the interest in the "Great West" recently sold, and will make that paper as lively and interesting as of old. Mr. Pomeroy has just recovered from a severe sickness, and

is now giving his attention to answering the stories that have been put in circulation regarding his failure and the collapse of some of the mining companies in which he occupies official positions.

JAMES H. GEER, a son of David Geer, of South Thomaston, is engaged in cutting stone near Cape Town, South Africa. He reports himself as doing well. Where, in the wide inhabited world, may not the boys of Maine be found! —[Rockland Free Press.

MR. DELANO A. GODDARD, editor-in-chief of the Boston Daily Advertiser, died in Boston on Wednesday last, of pneumonia. Mr. Goddard was born in Worcester, Mass., in 1831, and was a graduate in the Yale famous class of 1853. Mr. Goddard's first experience in journalism was in Painesville, Ohio. He was connected with the Boston Chronicle in 1855, then went to Worcester, Massachusetts, and was ten years associate editor of the Worcester Spy. In 1868 he became connected with the Boston Advertiser and has been editor-in-chief thirteen years. He served two terms in the Legislature and was a member of many literary and historical societies.

Dips, Spurs and Angles.

—A country editor who has been elected a measurer of bark calls upon everybody owning dogs to bring them to his office and have their barks measured.

—George Harlendorf, shipping clerk for the copper manufacturing firm of Parker, Scott & Co., Chicago, has been arrested for stealing twenty-eight tons of copper, valued at \$18,000.

—Holmes remarks on the wonderful provisions of nature. He says there is not even left a narrow crevice under a flat rock without a thin black bug prepared by Providence to fill it. It is the same way when vacancies occur in official positions.

—A New York reporter describes Oscar Wilde as having a complexion like putty, a fist like a steam-hammer, a foot like a Chicago father of marriageable daughters, a voice like a fog-horn and a laugh like the roar of the bull of Bashan. Not a very æsthetic picture, to be sure.

—Still another example of the friendly feeling existing between New Mexico journalists. The Socorro Miner says: "The Joplin 'Tramp' is off his base again. He put on a clean shirt the other day and has been sick ever since. He had better stick to his old profession of absorbing slumgullion than in trying in his present maudlin state to edit the two by six concern up town."

—A small specimen of humanity who has recently begun going to Sunday School undertook to memorize this remark of Solomon: "A wise son maketh a glad father, but a foolish son is the heaviness of his mother." He repeated the opening installment on the first Sunday with neatness and despatch, but when on the following week he attempted the whole it came out in this way: "A wise son maketh a glad father, but—but a foolish son is just like his mother!"

—Jacob was content to serve seven years for Rachel, and to assist her old skinflint of a father in his stock-watering operations, and even then he didn't get her, for Laban flatly repudiated his agreement, and put off her ugly old sister on him. And yet so great was Jacob's love for Rachel that he bought her again on a long option—seven years more—and, having learned the tricks of the old man by this time, so adroitly manipulated his stock operations that before the seven years closed he had Laban short on sheep, while he

himself was long on a rising market.—[Stock Exchange Bulletin.

—The editor of the Idaho World neglects to inform us of the nature of his Christmas present, but the following remarks may serve to shed some light on the matter: "If that deep-dyed, base-metal, under-handed, diabolical individual who gave the pencil pusher of this sheet dead away by putting that present on the Christmas Tree for him will sling his hoofs around to this office and make himself known we will take him one side and talk to him. If he is an overgrown, double-fisted, knock-'em down-at-the-drop-of-the-hat fellow we will apologize for calling him such hard names, tell him it is just what we need in our business, and with all the politeness we can muster, thank him very much; but if he is of stunted stature, not very strong of muscle, and of a non-combative nature, we will talk to him, with emphasis, in nine languages, deceased and modern, and will then proceed to sit down on him very hard. If we were not Grand Cyclops of the I. O. G. T.'s, and were not a member, in good standing, of both the temperance orders of this place, we wouldn't care so much. *E Pluribus ulookout, sit-onem a la m'phasis, blacki, sic dis temper, typhoid pneumonia.*"

Canada Phosphate Lands.

MONTREAL, January 3, 1881.

To the Editors of the Maine Mining Journal:

SIRS.—I send you a short report from Professor Selwyn, the head of our Geological Survey, which although referring to particular mines in the Phosphate belt of the Ottawa, is so general in its tone, that the facts contained in it apply, in a large degree, to all mines in the Phosphate region, and I have no doubt it will be of interest to anyone wishing to obtain information about the prospects of mining in that section.*

R. H. G.

GEOLOGICAL SURVEY OF CANADA,
MUSEUM AND OFFICE 76 ST. GABRIEL ST., MONTREAL,
October 6th, 1880.

The Secretary of the Laurentian Phosphate Mining Co.:

DEAR SIR—In compliance with your request that I would give you my opinion respecting the probable character of the apatite deposits which have been more or less opened up and developed on certain lots, situated in the townships of Hall and Templeton, the property of the Laurentian Mining Co., I beg to say that the very hasty and limited inspection I have been able to make of the country and of the numerous openings on the lots referred to, enables me to do so only on general geological considerations and principles, rather than on the special features of the several lots comprising the property. On the grounds stated, however, I have no hesitation in saying that there is every reason for supposing that as much phosphate can be mined on these lots as on any other equal area in the phosphate region. From the nature and probable origin of the deposits, they are necessarily of a more or less inconstant and fluctuating character, both as regards extent and the amount of other mineral matter mixed with the apatite, and it is in consequence impossible to predict on which lot or at what depth the largest, most persistent and purest veins or masses will be found. But the supposition that the rich deposits are confined to the surface or to limited depths is, I think, incorrect, and there is no good reason why—whether occurring in veins or as segregated masses—they should not be found as rich at the greatest depth to which they can be profitably mined as they have been proved to be at or near the surface; and even if a rich surface deposit has been exhausted in a limited depth, this fact by no means indicates that the property on which it occurred had become worthless, but on the contrary that further exploration would almost certainly lead to the discovery of other similar valuable deposits, either in depth or on the horizontal extension of the same bed or vein. Bearing these facts in mind together with the position of the property in the centre of the known phosphate-bearing zone, and the excellent quality of the apatite which has already been mined on it, I certainly consider it to offer as promising a field for investment in phosphate mining as could be found in the region. I am dear sir

Yours faithfully,

ALFRED R. C. SELWYN, F. R. S.,
Director of the Government Survey of Canada.

*Mr. Veunor, in referring to part of the same property, says: "They abound in phosphates. I examined one bunch cut through solid phosphate rock for close upon one thousand feet; this shows for itself. I believe two thousand tons would be taken from this mine within three months. The mineral does not occur in pockets but in the shape of solid masses. Mining in this district would likely cost \$4.50 (four dollars and fifty cents) per ton, and transport to railway or river, one dollar and twenty-four cents per ton. I found some gold quartz here but in no great quantity."

—It is generally anticipated in Portland that the Acton Consolidated Silver Mining Company will reorganize on an assessable basis and commence work on their property before long.

LODES, LEADS AND VEINS.

SUNBURST.—Secretary Donelan writes us that the mine continues to improve in appearance, showing better every day. He says it is surpassing his expectations; the copper is rapidly increasing in quantity and quality and the ore carries a larger percentage of gold and silver. Though the shaft is but twenty feet distant from high water mark, it has but very little water, fifteen tubs being an unusually large quantity for them to raise during the day. The recent rains, however, gave them a little more, but the cold weather has checked the flow from the surface.

DEER ISLE.—Developments have progressed at the mine without any special changes. A cargo of two hundred tons of Deer Isle ore has just been shipped to the New England Smelting Works. It is understood that Mr. Harris has resigned from the presidency of the Company.

NEPTUNE.—There is on exhibition at the office of Dr. Sylvester, Congress Street, Portland, the most magnificent array of copper sulphurets ever displayed in this section. These specimens are from a small island in the immediate vicinity of Cross Island, and the property is in the possession of an organization known as the Neptune Mining Company. The samples are many of them of large size and comprise the purest copper sulphurets. Assays have been made and run from 33.48 to over 34 per cent copper. The ore is entirely free from iron and, in fact, the only element contained in it, besides the copper sulphurets, is quartz. The vein is about six feet in thickness and the pay streak of massive ore is said to be twenty inches in width. Prof. Bartlett, of the Portland Smelting and Reduction Works, has offered \$120 per ton for the ore. The prospect shaft is now down only about a dozen feet and future developments will be watched with great interest. The showing at present being made is unparalleled. The Neptune Mining Company is a Portland organization and is officered as follows: President, Capt. Chas. Deering; Treasurer, John M. Peck; Secretary, Dr. Sylvester; all of Portland.

Sullivan.

SULLIVAN.—Few people outside of the Management are aware of the large amount of work done at the Sullivan Mine since the reorganization of the company. Extensive surface improvements have been made and the mine has been opened to a depth much greater than any other Maine mine. A large boarding house capable of accommodating sixty men has been erected; a substantial wharf with a frontage of 65 feet and with a depth of water enabling vessels of large size to unload and load freight has been built; both shaft houses have been repaired and put in excellent condition; a large carpenter shop has been built in which all kinds of heavy work can be done; and a commodious house has also been erected for the Superintendent. A large steel boiler of 125 h.-p. has been put in, three Rand drills have been purchased and there is now under contract a large Cornish pump and hoisting engine combined. The shafts and underground works have been timbered and made thoroughly safe and a great amount of work has been done in sinking and drifting. The incline shaft has now reached a depth of about 350 feet and the fifth level will soon be opened. On the third and fourth level about 350 feet of drifting has been done. The vein retains the same general characteristics and the ore continues of very good quality. Assays from a seam of apparently barren quartz which recently came into the shaft gave \$7.75 of gold to the ton. It is anticipated the Sullivan mill will be started up in April.

MILTON.—There is nothing of very great importance to report this week beyond the continued activity in all sections of the works. Good progress has been made in all parts of the mine, and the vein is improving as depth is attained.—[Bulletin, Jan. 9.]

GOLDEN CIRCLE.—As will be seen by advertisement in another column, the Golden Circle Mining and Milling Company solicit proposals for contract work at the mine. We are informed that a syndicate of New York gentlemen have recently purchased quite a large amount of the Company's bonds. This gives them a fund for a working capital and, consequently, active work will be resumed upon this valuable property immediately.

Egypt.

COPPEROPOLIS.—In consequence of the long continued rains last week, work in the shaft was considerably interrupted by surface water, but means have been provided against a recurrence of this trouble, and now work is being pushed with the usual vigor.—[Sullivan Bulletin, Jan. 9.]

CUMBERLAND.—Considerable work has been done on this

property taking into account the very stormy weather which has prevailed for some time past. The same good character of ore continues that has attracted so much attention from commencement of operations on this property.—[Bulletin.]

BENJAMIN FRANKLIN.—At a recent meeting of the Board of Directors of the Benjamin Franklin Silver Mining Company, held in Bangor, it was voted to levy an assessment of 2 1-2 cents per share upon the capital stock. The assessment is payable February 1, and the company propose to begin active operations at the mine about March 1.

FRANKLIN EXTENSION.—Supt. McDonald is drifting both north and south on the 112 ft. level, working twelve men—night and day shift—and raising good ore. The drift has been extended 12 feet north and 26 feet south from the shaft, and we are informed that the south header now shows a vein of good ore fully 4 1-2 feet in width. The future outlook for the mine is highly favorable. Very little trouble is experienced with water, and Capt. McDonald is doing excellent work in an economical and expeditious manner.

Blue Hill.

Work at the Twin Lead and Blue Hill is progressing as usual, without any special developments worthy of note. The Mammoth, owing to its close proximity to Douglass Pond, is troubled considerably with water, and work will not be resumed in the shaft until the new pump is in operation.

DOUGLASS.—The Douglass has recently been shut down for several days, while taking an inventory preparatory to the new Management assuming control. Work was resumed on the 5th inst. under the new order of things, and the several departments are gradually getting into shape for rapid and systematic work. General Manager Thompson intends to have everything about the mine and works move with clock-work regularity and precision, and to that end has under his control a thoroughly competent and reliable mine-superintendent, an underground mining-captain and an experienced superintendent for the smelting department. Contracts have been let for sinking and drifting, and the mine will be opened up and the ore-bodies developed as rapidly as possible. One cupola furnace is running finely, turning out between two and three tons of thirty to thirty-five per cent. matte daily. The other cupola will be started up as soon as a sufficient quantity of roasted ore is on hand. It is the intention of the company to ship matte and not attempt to make refined copper for the present. Five tons of ingot copper were shipped to Boston on Monday last per steamer Henry Morrison, via Rockland.

STEWART.—Good progress continues to be made in shafts Nos. 2 and 3 at the Stewart, and both are rapidly improving in appearance with increasing depth, particularly shaft No. 3, which shows a fine body of ore. Capt. Dunn has experienced some annoyance from surface water, the result of the heavy rains of a few weeks since; but the recent cold snap has put an end to trouble from this source for the present. As announced in another column, the Stewart has levied an assessment of ten cents per share on the capital stock of the company, payable January 16. Transfer books closed on the 9th inst.

YOUNG HECLA.—The new shafthouse is nearly completed, and the hoisting engine and pump recently shipped from this city have arrived at the mine. They will be placed in position at once, when sinking the main shaft will be resumed.

Bagaduce.

HERCULES.—Supt. Emerson is making good progress in sinking the shaft, which has reached a depth of 20 feet. A very handsome body of ore is following down the side of the shaft and will be taken out by stoping. A meeting of the stockholders of the Hercules Mining Company will be held in Portland on the 17th at which the company will reorganize on an assessable basis.

TAPLEY.—A contract has just been perfected for sinking the shaft on the Tapley 100 feet deeper. When the contract is finished the mine will be opened to a depth of 130 feet. A magnificent showing is being made at present and very great things may be expected of this valuable property in the future. The developments will be prosecuted vigorously.

MANHATTAN.—Work is being pushed energetically with three shifts of men. The drift is being extended on the vein and the ore body continues of the same high grade and appears to be steadily widening.

New Hampshire.

SHELBOURNE.—The annual meeting of the Shelburne Silver Mining Company was held in Portland last week. L. D. M. Sweat was reelected President, Wm. E. Gould, Treasurer, and

C. W. Hobbs, Secretary. The board of directors elected is composed of five persons instead of nine as formerly.

MASCOT.—Supt. Johnson writes to the President that a big shot has been fired in the Mascot and that twelve thousand pounds of pure galena have been taken out as a result of the blast.

SILVER LAKE.—The Silver Lake Mine, at Madison, New Hampshire, is being worked by T. Brigham Bishop & Co., who have perfected a lease of the property. Col. Brownell Granger is in charge as Superintendent, and mining work is being actively prosecuted. At present a tunnel is being driven in the hill-side on the vein and considerable ore is being taken out. The ore will be shipped to the New England Smelting Works.

British Provinces.

The shipments of gold from British Columbia during 1881 amounted to \$38,000.

The Queen Manganese Company, at Markhamville, N. B., are shipping 100 tons of manganese, by the bark "Templar," to the west coast of England.

Messrs. Couch and Wilder have invoked the aid of the law to settle their difficulties in connection with the Dorchester copper properties. Wilder claims to have been an equal partner with Couch in his enterprises at Dorchester and entitled to half the proceeds of the sales, while Couch disputes the claim.

The Toronto Mail of Dec. 30th confirms the report that the Messrs. Belloni, of New York, have purchased the International Coal Mines, in Cape Breton. They have been lessees of the mines for some years past, and during the season just closed have taken out over 100,000 tons of coal. The price was \$250,000, to be paid in instalments of \$25,000 per annum.

Pie Island, on Lake Superior, promises to vie with some of the "Bonanzas" of California. A private letter to a gentleman in Ottawa, states that at a depth of 125 feet in the main shaft a vein of solid silver ore has been struck. General Smith, of New York, on behalf of a number of capitalists interested, has been dispatched to the Island to make an investigation of the extent of the vein.

The North Sydney (C. B.) Herald of a recent date states that the Miller Coal Mining Company, of Boston, now engaged in sinking a shaft at McAdam's Lake, East Bay, has struck an eleven foot seam of coal at a depth of thirty-five feet. The coal is one of the best quality of anthracite yet found on the island, and is regarded as a very important discovery. The Miller Company is made up of Boston gentlemen, who propose to push the development of the property vigorously.

The Halifax New Era announces an important copper discovery at Red Cape Mountain, Inverness county, Cape Breton. The lode has been traced for a distance of 1 1/2 miles. It measured 12 inches in thickness at the surface, but at a depth of ten feet has increased to 3 1/2 feet in width, ten inches of which is a red oxide of copper so pure as to be almost native. It assays 75 per cent., while the quartz, which is also heavily charged with mineral, assays 33 1/2 per cent. The owners propose to develop the lode by means of a tunnel, and have contracted for running the first section of 100 feet with Messrs. Grant, of Port Hawkesbury, who have already commenced work.

SATEMO GOLD QUARTZ CO.—The mill at Tangier, Nova Scotia, started up December 22nd, but was shut down for a few days owing to a slight defect which was speedily remedied, and the mill again started up on the 26th. The superintendent sent out by the New York contractors and builders of the mill in a letter to his firm dated December 30th, says: "I started on Monday morning and have been running night and day since without as much as a hot box or anything else to retard our progress. I am proud to say that I honestly believe the mill to be the best one in the Dominion of Canada. It runs beautifully at an eight-inch drop, eighty-five drops per minute. I think that drop, and that number of drops give better results than ninety per minute. We have averaged twenty tons each twenty-four hours since we started. Will do better next week. * * The ore breaker does its work easily and expeditiously, and I must confess I was agreeably surprised at its operations. It leaves but very little for the stamps to do. We are now running through ore that will push four ounces to the ton very close. I will clean up after another week."—[Mining Record.]

Croppings.

[Compiled, Condensed and Condensed from our Exchanges.]

The total anthracite coal production for 1881 was 28,548,899 tons, against 23,382,266 in 1880.

An army of 1,757 men, representing a monthly pay-roll of

nearly a quarter of a million dollars, is still hunting the elusive bonanza on the Comstock.

The Liberty Mine, near the Rappahannock Mine (Virginia), is making a great success in saving gold by a new "French" process. This mine was lately purchased by Boston capitalists for \$100,000.

The Colorado Miner places the bullion production of Clear Creek county for 1881 at \$2,204,980.31, about half a million dollars short of last year's output, but a very creditable showing nevertheless.

The San Francisco Copper Mine, at Spenceville, Cal., is producing from 30 to 37 tons of copper monthly. It is believed the company will be able to begin declaring dividends before the winter is over.

A very serious fire is raging among the sulphur mines at Schmolnitz, Hungary. It is feared that the flames cannot be extinguished and it is probable that a loss of many million florins will be the result.

The Quartz Company at Dalton, Mass., are doing a large business and have already mined three hundred tons of quartz. The miners will keep at work during the winter and the rock, which finds a ready sale, will be shipped in the spring.

Utah makes a proud bullion record for 1881. Nearly \$10,000,000 were taken from its great mines and added to the wealth of the nation. This year it will do better, and we predict a bullion product of \$13,000,000.—[Salt Lake Tribune.]

The Butte (Montana) Inter-Mountain says a visit to the large smelters of the Montana Copper Company and the Parrot Copper Company will dispel all scepticism as to the immense importance of the copper mining industry of the Butte district. Both smelters are turning out tons of copper matte daily.

The Candelaria (Nev.) True Fissure says: B. G. Smith exhibits some fine specimens of native sulphur from his mine in Santa Fe District. The sulphur is in a large vein from which blocks weighing 100 pounds and more can be broken. The walls are of gypsum and the amount of sulphur seems illimitable.

Butte, Montana, claims to have produced \$6,100,000 in bullion the past year. The Moulton will add another \$1,000,000 the present year; the Lexington will do the same; the Bell and other great mines at least \$2,000,000, which will swell the product of that great camp to \$10,000,000 in 1882.—[Salt Lake Tribune.]

In Esmeralda county, Nevada, is a copper mine called the Ludwig & Carter, from which \$100,000 worth of metal has already been extracted. There is said to be ore enough in sight in the mine to run a 100-ton furnace for an indefinite number of years. A 20-ton furnace is nearly completed, from which it is expected to realize a profit of \$10,000 per month.

It is reported that Senators Call of Florida, Jones of Louisiana, Fair of Nevada, and other Congressmen, have purchased the old Whitehall Gold Mine, near the Wilderness battle-field, in Spotsylvania county, Virginia. Gold was first found there in 1809. The mine was worked by Commodore Stockton from 1848 until just before the war. It has since been owned by Gilbert R. Fox, of Pennsylvania. It has yielded \$1,800,000 in gold since its discovery, as shown by the records of the Pennsylvania Mint. Within a space of three feet, at a depth of twenty-eight feet, \$160,000 worth of pure gold was taken out—a yield surpassing anything known in the history of mining. Senators Call and Fair, with H. B. Clifford of Arizona, have recently visited the property.

The Clifton Hydraulic Company is the title of a recently incorporated New York organization, with a capital stock of \$5,000,000, every share of which is said to have been taken as soon as issued. Their mines comprise an area of about 10,000 acres of land, commencing about one mile from Clifton (Arizona) and extending fifteen miles on both side of the San Francisco River. These placers, says the Tucson Citizen, were discovered ten years ago by Mr. Mason Greenlee, and the district was named after him. He worked the placers profitably in a crude way and they have been worked more or less since that time by a Mr. Pickard of California, the Bentz brothers and the Larimore brothers of St. Louis, from whom the Company purchased. The gravel yields from five cents to over two dollars per pan, the richest being of course nearest the bed rock. The gold is coarse and undoubtedly had its origin in the immense gold ledges that exist in that vicinity.

—During the month of December the Bangor carriers delivered 23,921 letters, 7,899 postal cards and 17,233 newspapers, and collected 35,137 letters, 12,014 postal cards and 4,234 newspapers.

A Big Railway Scheme in Nova Scotia.

The Nova Scotia Government have entered into a contract for the sale and transfer of all their interests in the various lines of railway in that Province to a syndicate of London capitalists, represented by E. W. Plunkett, one of the contractors for the construction of the Western Counties Railway. The Halifax Chronicle has managed to get access to the contract and publishes it in full, although it was to have been kept secret until Parliament met, on the 19th of the present month.

There are several railways in different parts of the Province in an unfinished state, which the Government have not the means of finishing, the exchequer being low. The company, or syndicate, are to obtain possession of all the railways in the province at a valuation, namely, the Windsor & Annapolis, Eastern Extension or Halifax & Cape Breton Railway and Western Counties Railway. They are also to receive running powers over the Intercolonial from Halifax to Truro, and be given the Pictou branch of the Intercolonial out and out. In consideration of this the syndicate is to pay the government for its interests in the roads \$1,350,000 cash, and is to build the section of the Western Counties road from Digby to Annapolis, a branch from Pictou town to the Intercolonial (it now only runs to Pictou Landing, and from thence goods and passengers have to be conveyed across the harbor in a steamer,) and a branch from Windsor Junction on the Intercolonial into the town of Dartmouth on the opposite side of the harbor from Halifax, for which Dartmouth gives a subsidy of \$4000 per mile for twenty years. The syndicate may, if the government wishes, be required to complete a line from the Strait of Canso to some port on the coast of Cape Breton and to complete the Nectaux & Atlantic line from Middleton to Lunenburg. The government is to declare its wish in this respect before March 1. If decided to have the Nectaux road finished the government is to refund about \$320,000, balance of the subsidy offered when the road was commenced, and 150,000 acres of land. If the Cape Breton line is to be completed the government is to give 2000 acres of land in the Island of Cape Breton and free leases of twenty-five square miles of mineral lands. The province is also to pay for rails for the Pictou extension line. Besides this the government is to aid the company by a guarantee of interest on bonds or any other way that may be substituted, the provincial liability to be \$225,000 annually for all future time, or until the bonds so guaranteed shall be redeemed. A provision is made for a sinking fund designed to extinguish the bonds in forty-one years. A board of trustees is to be jointly appointed, who are to hold a mortgage on all the property of the syndicate, other than lands, as security to the province for the payment of the interest guaranteed and money required for the sinking fund. Ten thousand pounds of the syndicate's payment was deposited at the date of agreement and £52,000 two months later as security for the performance of the work required under the terms of the contract. The capital of the syndicate of all kinds is to be not less than \$10,000,000, of which the agreement says, "the usual proportion shall be paid up." This agreement shall be subject only to ratification of the Legislature of Nova Scotia, and if so ratified without any alteration or amendment not later than February 1 next, and if all legislative enactments necessary to give it effect, as well as the act of incorporation for the new company are passed by the Legislature, the company shall immediately furnish such other sufficient security as the Governor and Council may require of the due performance by the company of its obligations as specified.

The Halifax correspondent of the Boston Globe says: "The people have been so taken by surprise by the extent of the measure, which has heretofore been kept so secret, that it is not yet possible to say how it will be received. It means the placing in the hands of the government of nearly \$1,250,000 for immediate pressing needs and the expenditure by the syndicate of a large amount of money in the province; but on the other hand, over half the revenue of the province is pledged in payment of interest, and the only security is a mortgage of the roads, which the government can never run itself. The chief evil, however, is that it places a tremendous power in the hands of a syndicate such as will give it control of trade and commerce through the province forever."

—The St. John Society of Natural History have made arrangements for a course of free lectures upon scientific subjects, to be delivered at the rooms of the Association, by gentlemen of well known scientific attainments. The Sun states that the members of the Society who are interested in Taxidermy have mounted not less than 250 specimens of the birds of New Brunswick, and to preserve them in good condition the Society will be at the expense of at least \$600 for cases. It has just issued an appeal for outside assistance, which it is hoped will meet with a satisfactory response. The labors of the Society are of great and lasting benefit to the Province and city.

EASTERN INDUSTRIES.

LOCAL NOTES.

A. M. Robinson, Jr., the druggist, has retailed over 300 ounces of spruce gum within the past two weeks.

Ara Warren, the well known druggist, of this city, has received an order from New York for one thousand boxes of his excellent chewing gum.

The amount of lumber surveyed in Bangor during the last quarter of 1881 was 42,553,877 feet against 39,959,312 feet for the same period of 1880.

Parker & Peakes, at their enlarged boot and shoe factory on Exchange street, are running full blast, employing seventy hands. They manufacture men's heavy and light boots, which find a ready market in Portland, Boston and the West.

H. B. Maynard, at his Broad street establishment, continues to manufacture those lumbermen's batteaux which have made his name so famous wherever his boats are used. He turns out about seventy-five per year, many of which go to Pennsylvania, Wisconsin and other parts of the West.

Morse & Co., at their mills in this city, put up last season 150,000 boxes of salt, most of which were 20-lb. boxes. It is imported from Bonaire and, after treatment at the mills, finds a market far and wide for table use and butter salting. The boxes are made at their own mills, which consume about 400 cords of spruce and basswood annually. About 1000 tons of plaster are also yearly ground at these mills.

Messrs. Cutler & Eddy, of this city, have formed a copartnership with Hon. E. R. Burpee for the purpose of running a steam mill and a water mill at Van Baren and otherwise developing an important lumber manufacturing enterprise in that vicinity. The mills contain eight shingle machines, a rotary saw and two clapboard machines. The product for the season will be about 20,000,000 shingles and between 300,000 and 400,000 clapboards, all of which will probably be brought to this city by rail. Mr. Burpee started up these mills last season and Boston and Providence parties handled the products. Now the products will be handled here, very largely increasing the shingle business in Bangor. Mr. Geo. W. Howard, of Milford, is agent for the company. The company have a large number of men and horses at work getting out cedar. Operations in sawing were commenced this week.—[Whig and Courier.

PENOBSCOT LUMBERMEN.—Among those who have commenced lumbering are W. J. Reed, of Winn, on Salmon Stream, hauling hemlock and spruce with eight horses and twelve men, and also on Sowadahunk Stream, hauling spruce and pine with thirty men and ten horses. F. O. Leavitt, of Bradley, is on Salmon Stream, hauling cedar with six horses and twenty men. On Wassataquaick Stream are several from Benedicta; Ed. Perry, with eight horses and twenty men, Thomas Lowder, with sixteen horses and forty men, Andrew Rines, with six horses and twenty men. Mr. Farmer with eight horses and twenty-five men, are all hauling spruce and pine, and will probably haul five or six millions. Eli Kelley, of Patten, is on the West Branch of the Mattawamkeag with ten horses and twenty men, hauling spruce. On Sebais Stream are Reuben A. Crockett, of Lincoln, with twelve horses and thirty men, Mr. Hersey, of Patten, with twelve horses and thirty-five men, also several others from Patten. Leonard L. Buswell of Lincoln, is hauling into Nickatous Stream, on the Passadumkeag waters, with four horses and eighteen men. George W. Young of Winn, with four horses and eight men, is hauling spruce into Penobscot River, above Mattawamkeag. George S. Ranney of Winn, is hauling some spruce into Little Salmon Stream. Moses Wadleigh, of Oldtown, is hauling pine into Soldier Brook, near the East Branch of the Penobscot, with eight horses and twenty men. Frank Fowler of Medway, is hauling spruce into Millinocket Lake with fifteen men and six horses. Timothy W. Reed, of Medway, is lumbering on Mud Brook, with four horses and fourteen men. Messrs. Palmer & Son are doing a good business at the "Gulf" working about 160 men and 75 horses.

AROOSTOOK COUNTY.

Business is active in Aroostook. The snow, which has held off remarkably, has recently fallen in sufficient quantity to make good sleighing. The mills which have been for some time past shut down have nearly all started up again, and the prospect of active lumbering operations is good. Potatoes bring \$2.00 to \$2.10 per barrel at Caribou, for the best qualities.

The potato trade at Fort Fairfield, Caribou and Presque Isle continues on the boom, and the New Brunswick Railway carries immense quantities every day to Woodstock, where they are reshipped to American markets. The prices given by dealers continue wonderfully high. A man who came down from

those towns Friday states that 100 carloads were waiting for shipment at Fort Fairfield. Trains run regularly over the new branch to Presque Isle, and on an average three carloads of potatoes a day are shipped from there, as cars can be got to ship them.—[Commercial.]

ANDROSCOGGIN.

Dennison & Co.'s Paper Mills at Mechanic Falls are running to their full capacity, turning out from ten to fifteen tons of paper per day.

Fifty-four million yards of cotton and woolen goods, or enough to wind a bandage around the earth, and then stretch a yard-wide awning across the United States, have been woven in Lewiston the past year.

The Lewiston Falls Mfg. Co.'s property, recently sold for \$40,000, has been transferred to a company who propose to form a corporation with a capital of \$100,000 for manufacturing purposes. The old woolen mill is to be remodeled.

Lewiston corporations declare semi-annual dividends, as follows: The Androscoggin pays 5 per cent., making 10 per cent. for the year; Bates 7 per cent., making 13 per cent. for the year; Franklin 4 per cent., or 8 per cent. for the year; Hill 3 per cent., or 6 per cent. for the year.

CUMBERLAND.

About twelve hundred bushels of Lima beans were raised in school-district No. 5, Otisfield, during the past year.

Messrs. Thomas & Small, at their smoke-house in Knightville, Cape Elizabeth, are curing about 12,000 pounds of flannan hadies per day.

The pulp mill at Brunswick has ground up 672 cords of spruce and the same amount of poplar wood during the last seven months.

The Haskell Silk Co., at Saccarappa, will soon begin the manufacture of web silk. The looms are expected to arrive about the middle of the present month.

The Argus says the paper mills at Cumberland Mills are working on a contract of cardboard for postal cards. A single piece of eight miles in length is being made.

The Portland Company have received an order from the Ogdensburg and Lake Champlain R. R. for two Mogul locomotives of about forty tons weight each. The last two of the six locomotives made for the Richmond and Danville R. R. were sent out on Friday last.

The total value of the foreign exports from Portland during last week was \$53,193.49. Included in this were 1,032,029 feet of lumber. This does not include the cargo of the steamship Ontario, of the Dominion Line, which sailed on Saturday evening with a general cargo, including 65,500 bushels of grain, 3,950 boxes of butter, 920 boxes of cheese, 1,170 barrels of apples, 1,100 packages lard, 135 hogsheads tallow, 710 sheep and 74 head of cattle.

FRANKLIN.

Tarbox Bros., of Farmington, have put up ten tons of evaporated apples during the past fall.

The Foundry buildings at Farmington Falls are to be converted into a corn-canning establishment. The making of cans for use next season is to begin at once.

Phineas Whittier, the veteran orchardist of Farmington, has contracted with C. H. Watson, owner of the Franklin Mill, for the making of 500 barrels to be used for packing apples next season. Mr. Whittier has sold some five or six hundred barrels of grafted fruit the past season.

HANCOCK.

The Collins Granite Company, East Blue Hill, have a large force at work this winter, and several large contracts on hand. We are informed that they are to erect polishing works at once, and also put in steam hoisting works at their quarries.

G. W. Allen has purchased the mill and privilege near the foot of Patten's Pond, in Surry, and is building a large mill on the same dam, to be used for sawing long lumber, shingles and staves. It will be ready to start up as soon as the pond and stream are open in the spring. Mr. Allen has also purchased several lots of timber in the vicinity.

There has been sawed at W. F. Milliken's mill the past season, 6,000,000 feet long lumber; 6,700,000 shingles; 1,500,000 laths. The retail trade at Ellsworth has been 2,200,000 feet long lumber; 2,300,000 shingles; 750,000 laths; 106,000 clapboard; amounting to over thirty thousand dollars. The same firm have left over a good stock of logs for next spring sawing

and expect the winter cut will be about 5,000,000 feet.—[American.]

KENNEBEC.

The business of the Readfield Woollen Manufacturing Company has been excellent during the past year, and the corporation now has orders ahead for two months.

About 2,300 men and 630 horses will be employed in the ice business on three miles of the Kennebec, between Richmond and Iceboro, the present winter, according to the Journal. About \$200,000 are paid in wages to laborers every winter by the ice companies doing business on the river.

The Augusta shoe factory has at last started up, and will run permanently. Messrs. V. K. & A. H. Jones, a driving shoe manufacturing firm from Lynn, Mass., have leased the property for three years, with the privilege of extending their lease to ten years at the expiration of that time. They have fitted up the building with modern machinery, and will manufacture ladies' fine shoes. Mr. A. H. Jones will oversee the factory, and will reside in Augusta. About 25 hands are now employed, and more will be hired until 200 operatives are busy at the factory. Preference will be given to local workmen. The firm intend to run the factory summer and winter to its full capacity.—[Kennebec Journal.]

KNOX.

Large quantities of paving stones are being shipped from Rockland and vicinity by rail to Cincinnati, Ohio.

At the annual meeting of the Cobb Lime Company, held on Tuesday of last week, the officers of last year were reelected, as follows: Directors, Francis Cobb, H. W. Wight, A. J. Bird, C. Hanrahan, E. R. Spear; President, Francis Cobb; Vice-President, A. J. Bird; Treasurer, H. W. Wight; Secretary, Henry N. Pierce. The cement works remain under the same management, with Mr. Shaw as superintendent. About 5,000 barrels of cement have been manufactured, bringing about \$3 per barrel. Improvements are to be made in the mill and its capacity increased.

The whole amount of lime manufactured in Rockland during the year 1881 was 917,067 barrels, by the following firms: Cobb Lime Company, 493,012; A. F. Crockett & Co., 110,145; Perry Bros., 52,560; Farrand & Spear, 52,290; White & Case, 35,675; Harvey Barnes, 29,207; Geo. S. Wiggin, 27,340; A. C. Gay & Co., 26,896; Joseph Abbott, 23,883; J. M. Kirkpatrick, 22,780; Geo. L. Snow, 16,666; R. W. Messer, 16,520; E. Gay & Co., 7,003; John Sherer, 3,090. This is the largest product of any year since 1872, and prices have been such that the business has been quite profitable. In addition to the lime produced in Rockland, the neighboring towns of Camden and Thomaston are considerable producers. It is estimated that there is produced in Camden (including Rockport) 125,000 barrels; in Thomaston 100,000 barrels; this added to the amount in Rockland, gives a total in Knox county of 1,142,067 barrels of lime.

LINCOLN.

Three thousand tons of hay have been shipped to Boston from Dresden, during 1881.

Judson Tarr's factory at Pennaquid is still running full blast, canning clams and clam chowder, employing 60 hands.

J. M. Haynes, at Wiscasset, has begun the foundation for a steam saw-mill for sawing shipyard lumber, and is also having the frames of two large schooners got out.

OXFORD.

One thousand bushels of apples per week are used at the canning factory at Hiram.

The residents of Turner Center and vicinity have subscribed \$600 toward building and equipping a cheese factory.

The annual report of the Oxford County Commissioners shows that the county commences the new year free from debt, and with over \$5,300 above all liabilities.

PISCATAQUIS.

Cleaves & Moore, sash and blind manufacturers, at Guilford, are going ahead of their expectations this season; they already have orders on hand that will last them most of the winter.

The machinery for the Piscataquis Woollen Mill, at Guilford, is arriving every day. Dustin & Co. of Dexter are doing the piping. The proprietors hope to have the mill ready to start some time in February.

SAGadahoc.

The paper mill in Topsham is running day and night, except Sundays and legal holidays, and manufactures on an average

500 superficial feet per minute, or 216,000,000 superficial feet in a year, which would cover a walk 4 feet wide and 10,022 miles long.

The American Express Company shipped 5,000 pounds of bass from Bath to New York on Monday of last week, and 1,000 pounds on Tuesday. They command a good price there. The Times says: "The law prohibiting the seining of bass was off Saturday night, Dec. 31st, and then the fish had to catch it. It is estimated \$3,000 worth of fish has been caught since midnight Saturday at Winnegance Creek. Curtis Spinney made \$45 Saturday night and Ben Oliver \$60. They were 'everlastingly slinging them' as one man remarked. The 'Adams' boys' netted 700 pounds Saturday night. At sixteen cents a pound this brings \$112."

WASHINGTON.

The Eastport Sentinel says the cold snap of the past few days has been worth many thousand dollars to the fishermen. The herring in large schools made their appearance along the North Shore and at St. Andrew's Bay last week, and the fishermen made good hauls.

YORK.

The Biddeford mills consume 35,000 bales of cotton annually.

Over 1,500,000 cigars were manufactured in Saco and Biddeford during the present year.

Messrs. Knight & Warren, of Springvale, have contracted for 350 acres of corn for their factory the coming season, and they are arranging to have 11,000 corn boxes manufactured.

GENERAL NOTES.

The eastern part of Maine is a considerable supplier of beef to the Brighton market. The sales of Maine cattle there are about 500 a week.

The failure of J. Winslow Jones & Co., the immense corn and lobsters packers, will prove a severe blow to the farmers of the State, to whom they were largely indebted. Mr. Jones had under his control no less than fifteen corn factories and five lobster factories in this State, besides a large number of lobster factories in the Provinces. The business has been profitable, and the causes of the failure were poor management and attempting to carry on too large a business upon an insufficient cash capital, Jones having built and fully equipped eight new corn factories during the past year.

The packing business in Maine has reached immense proportions. There are 61 corn-canning establishments, with an annual production of about 11,350,000 cans. The packing of fish is roughly estimated at 1,500,000 cans of lobster, 750,000 cans of mackerel and 250,000 cans of clams annually. The sardine business, which had its origin four or five years ago in a small shop at Eastport, has attained vast proportions, there now being fifteen or more factories in operation at different points in the State, and others are projected. Several factories are also quite extensively engaged in the canning of meats, chiefly mutton. Others are at present canning apples, while immense quantities of blueberries and other small fruits are put up at the various establishments throughout the State during the summer season.

Mr. Chas. G. Atkins, of Bucksport, one of our Fish Commissioners, gives us the following interesting facts in regard to the fish propagation of our interior waters. Two and one-half million of salmon eggs have been secured at the salmon hatching works in Orland the past season. These hatching works are in fine condition, and about 90 per cent. of these eggs are developed into little salmon which in a few years grow to be so valuable without further cost. Nine hundred thousand landlocked salmon eggs have also been secured at the hatching works at Grand Lake Stream, Washington Co. About 80 per cent. of these eggs become fish. The landlocked breeders are secured in fish pounds and removed in dip nets. The breeding salmon taken from the Tenobscot have run unusually large the past season, 15 to 16 lbs. being the average weight.

A correspondent of the Portland Sunday Times makes some pertinent suggestions which are equally applicable to the locality of Bangor. He calls for the establishment in Portland of light manufacturing enterprises, such as would furnish neat and respectable employment for young people, more especially girls. He says: "There are plenty of industries of just the kind wanted which can be started or induced to come here from other places. The inducements for manufacturers of this class to locate here are many, among which are the facilities for transportation, healthfulness of the city, and an abundance of the right kind of help. The only drawback that the writer has ever heard advanced is the high rate of taxation and dif-

ficulty of obtaining suitable room with power at reasonable prices. The first should be arranged satisfactorily to any parties who may desire to locate; the latter should certainly meet with no difficult solution if the real estate owners on Middle street desire tenants for their empty lofts. Among the industries which could be established advantageously are, suspenders, men's shirts, ladies' underwear, corsets, buttons, paper boxes, etc. Capitalists, merchants, mechanics and professional men should all be interested in this matter, talk it up, and use all their influence and resources to encourage any parties who may think of locating here. Manufacturers who are already established would be benefitted by others coming, as an increase of any special interest would establish a reputation for Portland as a market, and competition—which is really the life of business—would prove an incentive for all to excel in their productions. Excellent productions are what we want—goods that have merit and style. Such merchandise always sells. We have the facilities for making almost anything, and ought to do something to keep our skilled workmen and their families here and induce others to come."

BRITISH PROVINCES.

Halifax is exporting saur kraut to the United States. One firm has sent over a thousand barrels. It sells for \$9 per barrel.

More than 1,000,000 pounds of smelts, representing sixty carloads, have been shipped from Chatham Station, N. B., during the past month.

The population of the City of Montreal has increased 50,000 within the last ten years. Her factories now furnish employment to 40,000 individuals.

The Extract Works at Woodstock, N. B., are employing about 15 men. Three commodious tenement houses are nearly completed, for the accommodation of the workmen and their families.

Sir Hugh Allan is reported to be negotiating with the Quebec government for the purpose of purchasing the North Shore government railway, thus securing the traffic to the eastern seaboard.

The iron foundry of Messrs. Caffrey & Nelson, at New Glasgow, Nova Scotia, was totally destroyed by fire on the 31st inst. The loss was about \$13,000, with an insurance of \$6,000. The firm will immediately rebuild.

The customs receipts of Halifax and St. John for the past year show a marked increase. The revenue from this source collected at Halifax during the past year was \$1,316,258, against \$1,018,814 for the previous year. St. John collected last year \$981,113, against \$844,522 in 1880.

The Maple Leaf says fine specimens of copper ore were recently shown at that place (Albert) by Messrs. Steadman and Bennett, of Hopewell Cape. The lead from whence they came is on property of Mr. Alpheus Wilbur, New Horton. The above named gentlemen have leased this and adjoining properties.

Shipments of deals from St. John to Europe during 1881 will reach 210,000,000 feet, about the figures of last year. There has been an increase in Australian cargoes. The stock of deals lying over this winter at St. John is but 23,000,000 feet, and 40,000,000 feet at Miramichi. This, in connection with reduced stocks in the English markets, indicates an improved timber trade for next year.

The St. John Bolt and Nut Company are doing a profitable business. The report presented at a recent meeting showed a net profit of 14 1-2 per cent. on the last six months' operations. \$10,360 worth of goods were sold during the six months and \$7,065 worth of manufactured stock remain on hand. The company propose to add new machinery and increase the capacity of their works at once.

Railroad, Steamboat and Hotel Notes.

F. J. Alley's new Hotel at Bar Harbor is well advanced and is now receiving its roof.

The Rockland and Mount Desert Steamboat Company held their annual meeting at Rockland yesterday.

It is said that a Searsport vessel has paid a dividend of 32 per cent. on the original cost since Sept. 21 last.

The Mt. Desert Herald says the Hotel Hamilton, at Bar Harbor, will be kept open for the accommodation of winter travel.

It is said that over \$18,000 of the stock of the Fort Popham Summer Resort Association has been subscribed for, mostly by Boston parties.

The Sanford Steamship Company have declared a semi-annual

dividend of two per cent., amounting to \$10,000, payable the present month.

Steamer Henry Morrison has discontinued her trips to Ellsworth for the present, on account of the ice. She will run to Blue Hill, as usual.

Fifty carpenters are employed on the Rodick House, Bar Harbor. Good progress is being made and the frame work of the upper three stories is being rapidly put in position.

An elegant new hotel, the Gibson House, was opened to the public last week, at Woodstock, New Brunswick. It will be run under the management of the proprietor, Mr. John Gibson.

Rockland may now be congratulated upon the prospect of having first-class hotel accommodations. Capt. H. C. Chapman has taken charge of the Thorndike House, and is making numerous changes and improvements, and the Lynde Hotel has been leased to Messrs. Cole and Nutter, gentlemen who are well and favorably known to the travelling public. Mr. Nutter was formerly Steward of the steamer Cambridge, and during the past season has had control of the Carleton House, at Rockport. The Lynde is being thoroughly renovated and re-furnished and will open under the new management on February 1st. Mr. Fairfield, the popular clerk of the Thorndike, will remain with Landlord Chapman.

Nuggets.

—The Maine Press Association will hold their annual meeting at Portland on the 25th inst.

—Stephen E. Smith, of Bowdoinham, recently shot a silver gray fox near Webster Corner. It was a fine specimen.

—At the annual meeting of the Millbridge & Cherryfield Telegraph Company, their receipts for the year were announced as \$600.

—Messrs. Sherman, Gleason & Proctor, of Rutland, Vermont, are said to have \$100,000 worth of blue marble in sight, in a portion of their quarry long since abandoned.

—We are indebted to Jas. M. Smith, of Chloride, New Mexico, for a New Year's token in the shape of valuable specimens of Black Range ores, handsomely mounted on a piece of deer-skin.

—The Rockland Gazette has been consolidated with the Courier. The Courier-Gazette, with our old friend Fuller as editor, will make its first appearance next Tuesday. Here's hoping.

—H. H. Ragan will continue his series of popular Lectures on Travel, illustrated by the stereopticon, at Norumbega Hall, on January 17, 19, 24 and 26, under the auspices of the Bangor Lecture Club. See advertisement.

—The Eastern Electric Light Company have been granted the exclusive right to lay pipes, wires, etc., for use in their business, through the streets of Augusta, they becoming liable for any damage that may be incurred.

—The Portland News says the liquor dealers of Biddeford and Saco are being stirred up with a sharp stick. Whereupon the Richmond Bee inquires if the News means to assert that Derby, the new County Attorney, is a "regular stick?"

—M. G. Palmer, President of the Portland Electric Light Company, has petitioned the City Government for permission to introduce a system of lighting by electricity in the streets, public buildings and private dwellings of Portland.

—Mr. John Burr, of Freeport, a successful florist, is to decorate the parks on the line of the Maine Central Railroad the coming season with flowering plants, shrubs, etc. Mr. Burr has over 35,000 pots of verbenas growing, and other plants in proportion.

—The final official figures of the population of the United States at the tenth census give the population of Maine in 1880 as follows: Males, 324,053; females, 321,878; natives, 590,053; foreign, 58,783; white, 646,852; colored, 1,451; Chinese, 8; Indians, 625; Total, 648,936. In 1870 the total population of the State was 626,915, showing an increase in the last decade of 22,021.

—We acknowledge receipt from D. A. Cowell, Esq., of Leadville, a former resident of Maine, of copies of the Leadville Herald's mammoth New Year edition. It contains sixteen pages of solid matter relating to the marvelous growth and prosperous condition of Leadville, including a fine engraving of the Carbonate City and numerous illustrations of public buildings and other objects of interest.

—The MAINE MINING JOURNAL of Bangor, enters this month upon its fifth volume and the third year of its existence. It has a large circulation throughout the New England states and British provinces, and finds readers in nearly all the states and territories. In its special field it is a model journal, well edited, well filled and well printed. We wish it a happy new year and continued prosperity.—[Mount Desert Herald.]

—Our thanks are extended to G. C. Sturgis, of Portland, Oregon, for copies of the Morning Standard and Morning Oregonian. The Oregonian is profusely illustrated with views of that beautiful and thriving city and its fine public buildings. Mr. Sturgis is a graduate of the Maine State College, class of '77, and is now with Messrs. Hodge, Davis & Co., Wholesale Druggists at Portland, in charge of the Paint, Oil and Glass Department.

—We are informed that the Flowers Sleeping Car Company have received an offer from responsible parties to build all the cars the Company may want, furnishing nine-tenths of the money needed, and take the cars as security. A meeting of the Directors will be held the last of the month, when the proposals will be examined and the contracts awarded. The contracting agents will arrive in Bangor in a few days with their model. It is built perfect, with every part complete, so as to serve as a pattern by which the cars may be built.

—Lippincott's Magazine for January is a number of more than usual interest. It opens with a well written and finely illustrated article descriptive of Seville, by S. P. Scott. Then follows an installment of the serial, Stephen Guthrie, several short stories of a pleasing character and interesting articles upon general topics. "M. H. G." contributes an article on "A Trip to Tophet, giving a graphic description of a young lady's visit to the lower levels of one of the Comstock mines. The department of Monthly Gossip, consisting of editorial comment upon current affairs is one of the best features of the magazine.

—The inspection of the signal station in this city, under charge of John T. Downs, was completed by Lieutenant Joseph S. Powell yesterday. Inspector Powell expressed himself as much pleased with the office and sent a good report of its working for the past year to the Chief Signal Office. The Inspector has recommended that the station in this city be made a station of the first class. This means that, in addition to the printed weather reports and local observations of the weather, the station will be equipped with a full set of meteorological instruments. Six readings of these instruments a day will be made and three daily telegraphic reports forwarded to the Chief Bureau. In the event of the establishment of a station of the first class here, reports will be received tri-daily from Montreal, Quebec, Toronto, Portland and Eastport. These things being accomplished the station will be of general service at the port of Bangor.—[Commercial.]

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JAN. 11, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Alouez	8 1/2	8 3/4	8 1/2	8 3/4	8 1/2	8 3/4	8 1/2	8 3/4	8 1/2	8 3/4	8 1/2	8 3/4
Atlantic L. S.	17 1/2	17 1/2	17	19	17 1/2	17 1/2	17 1/2	19	17 1/2	19 1/2	18	19 1/2
Atlas	...	...	...	...	...	...	...	...	...	...	...	...
Aztec	...	...	...	...	...	...	...	...	...	...	...	...
Blue Hill Copper	...	...	1	...	1	...	1 1/2	...	1 1/2	...	1 1/2	...
Brunswick	10	...	19	14	...	...	...	...	...	...	...	...
Calumet & Hecla	25 1/2	25 1/2	23 1/2	24 1/2	25 1/2	25 1/2	25 1/2	25 1/2	25 1/2	25 1/2	25 1/2	25 1/2
Catalpa	45c	45c	40c	45c	40c	45c	40c	45c	40c	45c	40c	45c
Central	...	...	...	...	...	...	...	...	...	...	...	...
Copper Falls	4	4 1/2	...	...	4	4 1/2	4	4 1/2	4	4 1/2	4	4 1/2
Contentment	...	...	...	...	...	...	...	...	...	...	...	...
Douglass	1	1 1/2	1	1 1/2	1 1/2	1 1/2	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Dana	...	...	...	...	...	...	...	...	...	...	...	...
Duncan Silver	1 1/2	1 1/2	...	...	...	...	1 1/2	...	...	...	...	...
Empire	...	...	...	...	...	...	...	...	...	...	...	...
Franklin	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	15	15 1/2	14 1/2	15	14 1/2	15 1/2
Harshaw	4	4 1/2	4	4 1/2	4	4 1/2	4 1/2	4 1/2	4	4 1/2	4	4 1/2
Huron	3 1/2	3 1/2	3 1/2	4	3 1/2	4	3 1/2	4	3 1/2	3 1/2	3 1/2	4
Hanover	...	...	...	...	...	...	...	...	...	...	...	...
Humboldt	...	...	...	...	...	...	...	...	...	...	...	...
International	...	...	...	...	...	...	...	...	...	...	...	...
National	31 1/2	31 1/2	31	32	31 1/2	31 1/2	33	34	36	35 1/2	35 1/2	36
Osceola	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2	16 1/2
Powable	...	...	...	...	...	...	...	...	...	...	...	...
Phoenix	...	...	...	...	...	...	...	...	...	...	...	...
Pontiac	...	...	...	...	...	...	...	...	...	...	...	...
Quincy	54	55	54 1/2	55 1/2	55 1/2	55 1/2	55 1/2	56 1/2	54 1/2	55 1/2	54 1/2	55 1/2
Ridge	4	4 1/2	4	4 1/2	4	4 1/2	4	4 1/2	4	4 1/2	4	4 1/2
Silver Islet	18	...	20	20 1/2	18 1/2	20	20	20 1/2	19	21	19 1/2	20 1/2
Star
Sullivan	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2

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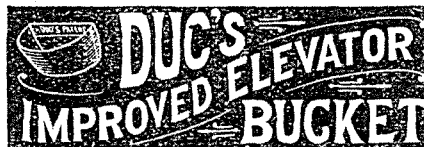
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Leave Bangor,	7.35	Steamers. 8.25
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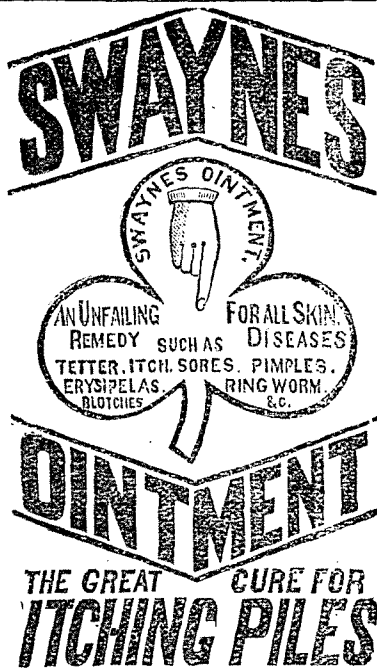
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5.—3.—108.

BANGOR, MAINE, JANUARY 20, 1882.

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OFFICE, ELLSWORTH, ME. MINES, GOULDSBORO, ME.

Capital, \$500,000. 100,000 Shares. Par Value, \$5.00.

Judge A. P. WISWELL, President.

C. C. BURRILL, Treasurer.

J. B. REDMAN, Sec'y. FRANCIS WORCESTER, Manager.

Directors—A. P. Wiswell, C. C. Burrill and Eugene Hale, all of Ellsworth.

W. I. VALENTINE, Superintendent.

Milton Mining and Mining Co.

OFFICE, 4 SEARS BUILDING, BOSTON, MASS.

MINES, SULLIVAN, ME.

Capital, \$500,000. 200,000 Shares. Par value, \$2.50

CHAS. H. LEWIS, Pres't.

GEO. E. HARRINGTON, Treas.

W. O. ARNOLD, Secretary.

Directors—Chas. H. Lewis, Geo. E. Harrington, Geo. West, J. D. Prescott, O. Arnold.

JOHN SHOENBAR, Superintendent.

Mammoth Copper Mining Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

250,000 Shares.

Par Value, \$2.00.

EUGENE M. HERSEY, President.

JOHN R. MASON, Secretary.

G. W. PICKERING, Treasurer and Transfer Agent.

W. D. LEWIS, Assistant-Treasurer and Secretary.

Directors—E. M. HERSEY, T. N. EGERY and SAMUEL STERNS, of Bangor; W. D. LEWIS, of Boston and CHAS. DUFF, of Blue Hill.

CHARLES DUFF, Superintendent.

Pine Tree Silver Mining Co.

OFFICE: 24 BROAD STREET, NEW YORK; MINES, SULLIVAN, MAINE

Capital, \$500,000.**Par Value of Shares \$5.00.****Unassessable.**

Gen. JOHN M. CORSE, President.

ROBERT L. CUTTING, Jr., Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—Col. CHAS. H. LEWIS, Gen. JOHN M. CORSE and ROBERT L. CUTTING, Jr., of New York.

Stewart Copper Mining Com'y.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

HON. FREDERICK M. LAUGHTON, President.

C. F. BRAGG, Treasurer.

C. F. BRAGG, Secretary.

Directors—Frederick M. Laughton, F. W. Hill, C. F. Bragg and Thomas White, of Bangor; S. N. Stockwell and G. B. Putnam, of Boston.

DANIEL DUNN, Superintendent.

Sullivan Mining Company.

OFFICE, 17 Tremont Bank Building, BOSTON, MASS.,

MINES, SULLIVAN, ME.

Capital, \$500,000.

100,000 Shares.

Par value, \$5.00.

GEORGE B. BROWN, President.

F. R. NOURSE, Treasurer.

CHARLES L. PERRIN, Secretary.

Directors—Geo. B. Brown, B. S. Grant, C. F. Farrington, J. G. Russell, Dudley R. Child, E. A. Birchard and Frederic R. Nourse.

Shelburne Silver Mining Co.

OFFICE, PORTLAND, ME. MINES, SHELBUENE, N. H.

Capital \$500,000.

100,000 Shares.

Par value, \$5.00.

L. D. M. SWEAT, President.

WM. E. GOULD, Treasurer.

C. W. HOBBS, Secretary.

STEPHEN JENNINGS, Managing Director.

Directors—L. D. M. Sweat, Charles A. Dyer, C. D. B. Fisk, C. H. Chase, C. S. Morrill, Geo. L. Warren, John E. Burnham, Wm. E. Gould, Stephen Jennings.

GEORGE D. HOLT, Superintendent.

Twin-Lead Mining and Smelting Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

125,000 Shares.

Par Value, \$4.00.

EUGENE M. HERSEY, President.

SAMUEL STERNS, Vice President.

JOHN R. MASON, Secretary and Treasurer.

Directors—E. M. Hersey, Samuel Sterns, John S. Jenness, Jacob Stern, F. H. Williams and Thomas N. Egery, of Bangor; Charles Duff, of Blue Hill.

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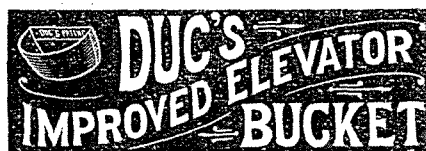
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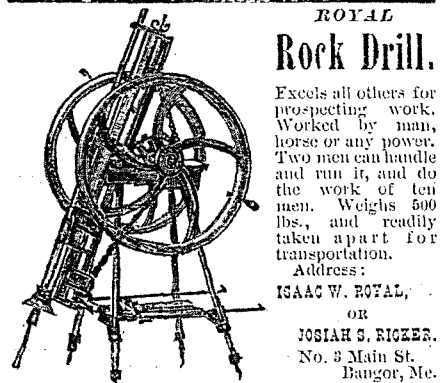
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Mining Engineers & Assayers
U. S. Deputy Mineral Surveyor for the territory of New Mexico.
☞ Mining properties examined and reported on.
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A Tunnel Breaks Through the Crust of Mount
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of Silver and Lead.

*Blocks of Argentiferous Galena Weighing
Over a Ton, Now Being Brought
to the Surface.*

THE IMMENSE ORE BODY TO BE LAID OFF
IN CUBE 50 FEET SQUARE, AND THE
DRIFTS, CROSS-CUTS AND WINZES
TO BE LIGHTED BY ELECTRICITY.

Geologists and Scientists are Amazed at
the Wonderful Development, and
Experts Place the Value of
the Mine Up in the
Millions.

The Property Easy of Access, Being One Mile from the Vil-
lage of Gorham, N. H., and Only 7 1-2 Hours' Ride
from Boston. Free Access to the Mines
at all Hours, Day or Night.

The Mascot Mining Company, owning 4500 feet of
this lode, invites critical investigation of its property
and finances; and calls attention to forty tons of bull-
ion now piled up in the New England Smelting Works
in East Boston, the product of 100 tons of Mascot ore.
The Company desires to dispose of the 15,000 shares
of its Treasury Stock for cash or on monthly instal-
ments, the proceeds to be held as a reserve fund in the
treasury. Price, \$2.50 per share.

When these shares are disposed of, the stock will be
listed on the Boston and New York Boards, and the
extraction of ore for dividends commenced.

The original cost of the property, as a prospect, was
\$30,000, and \$27,000 cash has been expended in devel-
opment and equipment. The work shows for itself.
It was planned and carried out by Mr. J. M. Johnson,
Superintendent, one of the ablest mining men of the
Commonwealth.

The Company is incorporated under the laws of the
State of Maine, with a capital of \$500,000 in 100,000
shares, full paid and forever unassessable.

We invite you to purchase some shares in the Com-
pany. To be interested in a productive mine in the
mountains of New Hampshire is something to be
proud of. To own shares in a mining enterprise in
the Presidential Range, where thousands of tourists
will visit it during the coming summer, must prove a
source of pleasure. When added to pride, pleasure
and public spirit, is the absolute certainty of pecuniary
profit (for the mines are now on a paying basis, and
the developments expose still richer and more massive
bodies every day), we feel that this appeal will meet
with a favorable response.

The Company controls an immense mineral estate
in Coos county. When the Mascot Company has
reached the full tide of popularity and productiveness,
other mining enterprises in the same section will be
promoted, for there is wealth enough in the White
Mountains to pay the National debt.

A CUSTOM CONCENTRATING MILL is being erected
on the margin of Mascot Lake, at the foot of the
mountain. When it is completed, a switch from the
tramway will enable the Superintendent to deliver his
second-grade ores direct to the crusher in the second
story of the mill; from which, without handling, the
rock will find its way to the tailing dump, and the
metal to the sacks. The first-grade ore will go, as at
present, direct to the ore bins.

The Company has erected a commodious hotel —
THE MASCOT HOUSE — convenient to the mines. It
is 60 feet front, facing Mascot Lake, is 90 feet deep,
and 2½ stories high. It has been leased to reliable
parties, netting the Company a handsome interest on
the investment, besides affording accommodations for
miners and visitors.

Specimens of the ore, bars of bullion, photographs
of the mines, reports by several geologists and metal-
lurgists, the General Manager's statement, and the
weekly letters from the Superintendent, together with
furnace-runs and numerous assays, may be seen at
the President's office, room 22, Crawford House, Bos-
ton.

Ore samples and circulars sent on application.

R. S. LAWRENCE, President,
Boston, Mass.

M. S. GIBSON, Vice President,
Portland, Me.

C. W. HOBBS, Treasurer,
Portland, Me.

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Highest market prices paid. First-class, responsible
buyers. Advances made on cargoes. Send analyses,
amount per month, samples (25 or 50 lbs.) Address,
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30 Exchange Street, Portland, Me.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Stewart Copper Mining Co.

— OF —

BLUE HILL, MAINE.

P. O. Box 515.

BANGOR, Jan. 2, 1882.

Notice is hereby given that an assessment of ten
cents has been levied by the Directors upon each
share of the capital stock of the Stewart Copper Min-
ing Company, and the same is made payable January
16, 1882, to the Treasurer at his office in Bangor, Me.

The transfer books will be closed Jan. 2, 1882, after
which date no stock will be transferred until the as-
sessment upon it has been paid.

By order of the Board of Directors,

C. F. BRAGG, Treasurer.

P. S.—Stockholders are requested to send in their
certificates to be marked assessment paid.

ASSESSMENT NOTICE.

OFFICE OF THE

North Castine Mining and Smelting Co.

BANGOR, Jan. 2, 1882.

Notice is hereby given that at a meeting of the
Board of Directors, held this day, an assessment of
two cents per share was levied upon the capital stock
of this corporation, payable to the Treasurer, January
15th, 1882.

Any stock upon which the assessment shall remain
unpaid on the 15th day of February, 1882, will be de-
linquent and will be advertised for sale at public auc-
tion, and unless payment be previously made, a num-
ber of shares of said stock sufficient to pay the delin-
quent assessment, together with costs of advertising
and expenses of sale, will be sold as above.

By order of the Board of Directors,

S. P. JOHNSON, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE

TWIN LEAD MINING and SMELTING CO.

OF MAINE.

4 MAIN STREET,)
BANGOR, Dec. 26, 1881.

Notice is hereby given that at a meeting of the
Board of Directors, held this day, an assessment of
five cents per share was levied upon the capital stock
of this corporation, payable to the Treasurer, January
14th, 1882.

Any stock upon which the assessment shall remain
unpaid on the 13th day of February, 1882, will be de-
linquent and will be advertised for sale at public auc-
tion, and unless payment be previously made, a num-
ber of shares of said stock sufficient to pay the delin-
quent assessment, together with costs of advertising
and expenses of sale, will be sold as above.

Stockholders will please present their certificates,
that payment may be endorsed thereon.

By order of the Board of Directors,

JOHN R. MASON, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Benjamin Franklin Silver Mining Company, OF FRANKLIN, ME.

HANCOCK, Jan. 16, 1882.

Notice is hereby given that an assessment of two
and one-half cents has been levied by the Directors
upon each and every share of the capital stock of the
Benjamin Franklin Silver Mining Company, and the
same is made payable February 1, 1882, to the Treasur-
er at his office in Hancock, Maine.

The transfer books will be closed January 2, 1882,
after which date no stock will be transferred until the
assessment upon it has been paid.

Stockholders are requested to send in their certifi-
cates to be marked assessment paid.

By order of the Board of Directors.

T. J. HODGKINS, Treasurer.

FOR SALE.

The Valuable Property known as the Bakeman Estate,

IS OFFERED FOR SALE.

Price, - \$40,000 cash.

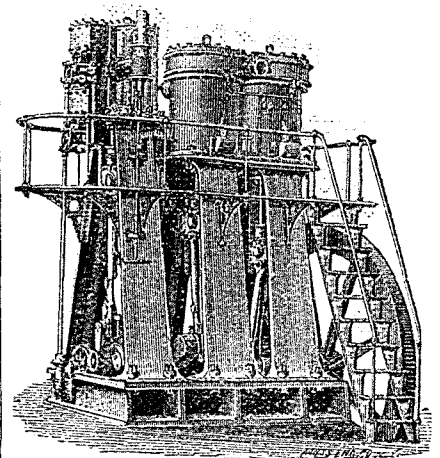
The property consists of over 500 acres of mineral-
ized land, adjoining the celebrated Cape Rosier Mining
property, and is acknowledged by the most celebrated
experts of this country to contain, not only the contin-
uation, but the richest part, of the Cape Rosier veins.
George H. Blake, No. 93 Exchange Street, Portland,
Maine, is the sole agent in charge of this property, to
whom all communications may be addressed.

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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

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E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

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THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JANUARY 20, 1882.

The Belfast Age remarks that "the copper mines of Michigan throw our Maine mines into the shade." And well they may. Previous to 1880 more than sixteen millions of dollars had been expended in their development!

Now that there are indications of the organization of a Mining Bureau under the Government, the mining interests will look to Major J. W. Powell, Director of the United States Geological Survey, as its rightful head, and entertain great expectations accordingly. Such a bureau ought to have been created ere this, and, until this is formed and run by a firm hand, the prosecutors of legitimate development will continue to be hampered by the ruinous speculations on penny stocks of reckless stock boards.—[Chicago Mining Journal.

Alluding to the increasing demand and advance in the price of zinc metal, the Engineering and Mining Journal says: "With a steadily growing demand during the last months of the year, the supplies were so rapidly absorbed that during December the scarcity of spelter took almost the form of a famine, quotations being firmly maintained at 5 7-8 and 6c. The principal source of inquiry of late appears to have been from galvanizing works, notably for such articles as fence-wire; and while the activity in the iron and brass trade lasts, the present good outlook will probably be maintained."

The year 1881 will always remain a memorable one in the history of copper mining in this country, as it marks the appearance of our Western mines as producers on such a scale as to exercise a marked effect upon prices. We cannot better illustrate the relative importance of the various producing districts than to give below an estimate of their output during 1881, our figures being the result of a careful study of the subject by gentlemen closely allied with the trade: Michigan 53,000,000 pounds; Maine, 100,000; Maryland, 100,000; Missouri, 200,000; North Carolina,

2,000,000; Pennsylvania, 500,000; Vermont, 2,500,000; Arizona, 8,000,000; Colorado, 1,750,000; California, 500,000; Idaho, Utah and Montana, 1,750,000; New Mexico, 500,000; Nevada, 250,000; Georgia, 50,000; sulphur ore from Canada, 250,000; total estimated product for 1881, 71,300,000 pounds.—[Engineering and Mining Journal.

Senator Teller, of Colorado, has introduced a bill to provide for the issuance of silver certificates based on silver bullion or coin deposited in the Treasury. It authorizes holders of silver bullion of 900 fineness or over to deposit the same with the Treasurer or Assistant Treasurer of the United States, for which they are to receive the market value thereof in certificates of not less than \$20 each. These certificates are made payable on demand in coin or United States notes, and shall be receivable for customs, taxes and public dues. It also provides that the holders of silver dollars may deposit the same with the Treasurer and receive therefor \$1 and \$2 silver certificates until the whole amount of certificates so issued shall have reached \$10,000,000. These small certificates are also made receivable for customs, taxes and public dues. The bill further provides that the bullion so deposited shall be coined at the mints as rapidly as can be done consistently with economy and without interfering with the coinage of gold.

The "Milton deal," previously alluded to, has for some time been one of the chief topics of conversation in Eastern mining stock circles. A large share of attention has been given to a consideration of the various phases of the affair and numerous rumors and conjectures have been afloat in various quarters. The "true inwardness" of the affair is one of those things which "no fellow can find out," and nearly everyone is as much at sea as ever with regard to it. The collapse has created much bitterness and public sentiment has run pretty high, but among the many conflicting stories it is utterly impossible to glean anything which may be relied upon as actual facts. The effect of this disgraceful fiasco, which is the most extensive but not the first which has occurred on the same board, has been for the time being sadly demoralizing to the general mining share market of Boston, but something of a recovery is now noticeable and improvement will ere long be the order of the day. The officers of the Milton Company assert that the affair has nothing to do with the mine and that developments will be pushed as vigorously as ever.

The sales of Maine mining shares at the Boston Stock Board during the week ending on Wednesday last have been confined to 1600 Douglass at prices ranging from \$1 to \$1.50, 50 Blue Hill at 87 1-2c and 820 Sullivan at 2 1-2 to 3. At the Mining Exchange a movement has again commenced, and as we are assured that the members of that Board propose to do a legitimate business hereafter, we give the quotations for what they may be worth. Milton was called on Monday, for the first time since its collapse. Starting at 40c, it steadily declined under heavy sales to 26, closing on Wednesday at 29, the sales during the three days amounting to 59,300 shares. Mammoth started on Saturday at 12c, dropped to 10 and advanced to 15 on Monday,

advanced still further to 18 and dropped again to 14 on Tuesday, closing on Wednesday at 15; sales 11,000 shares. Sales of Twin Lead for the week were 7,300 shares, at prices ranging from 26c to 31c (assessment paid), closing at 29. 11,400 shares of Deer Isle were sold at 30c to 36c, last sales being made at 34. Other sales of the week were 300 Douglass at 1 1-16 to 1 1-4, 200 Copperopolis at 17c and 20c and 500 Granger at 3c. Total sales of Maine stocks at the Mining Exchange for the week ending on Wednesday last, 90,000 shares.

The Boston Mining and Stock Exchange will, early in February, remove from their present rooms to new and more commodious quarters on State Street. The recent "deals" in Deer Isle and Milton have resulted very disastrously to the members of the Board, and nearly every individual doing business at the Exchange has suffered losses more or less severe. The process of readjustment is now in progress, however, affairs are gradually getting straightened out and business is beginning to move along smoothly once more. The brokers generally seem quite sanguine, and talk with confidence of future operations at the Exchange; but the past few weeks have been a trying period for the young organization, and it is to be hoped their experience may prove a lesson which will lead to beneficial results. The leading promoters of the Exchange assert that the Board is now freed from many of the influences which have degraded it in the past, and that in the future none but legitimate and honorable stock transactions will be permitted. We hope so; but we wish to see other indications of this intent than mere promises. However, the institution has survived the recent catastrophe and taken a new lease of life, and if disposed to act on the square it will find an abundance of business and render valuable assistance to the development of our eastern mines; but if, after having had the experience, they choose not to profit by it, the mining industry must repudiate them and their methods and seek the assistance it requires in some other quarter. It is for the members of the Exchange to say whether they will be men or boys.

A NEW DEPARTURE.

THE MINING JOURNAL, which has in the past been almost exclusively devoted to the advancement of the mining interest, proposes to extend its field of usefulness by embracing within its scope all other industries which tend toward the development of the vast and varied resources of Maine and the British Provinces. Geographically considered, either the Maritime Provinces rightfully belong to the United States or Maine should belong to the Canadas; at all events their interests are identical, and the MINING JOURNAL will labor to the best of its ability, with the facilities at its command, to further the advancement of all legitimate mining, railroad, manufacturing and industrial enterprises, on both sides the border, and bring their merits to the attention of capitalists.

In taking this new departure, we can assure our readers that the mining interest will not suffer by the change, as we shall continue to give it its full share of attention and the paper will retain its distinctive character as a MINING

JOURNAL. This because of our firm belief, which instead of being shaken has been greatly strengthened by the experiences of the past two years, that the mineral fields of this section are destined to become its greatest source of wealth and that mining, at no distant day, will become the first in importance among our industries.

Should our efforts meet with the success which seems already assured by the present outlook, the JOURNAL will shortly be enlarged and otherwise improved in general appearance, while the subscription price will remain the same. We have in view several new and attractive features which will be added from time to time as increasing patronage may warrant. It will be our aim to furnish fresh and reliable news of a class frequently overlooked by newspapers of a general character, and point out from time to time the best and most available methods by means of which our immense resources—gold, silver, copper, iron and other useful metals, granite, slate, marble, lime, timber, the innumerable and unrivaled localities suitable for summer resort, fish and game attractions, etc., etc.—may be utilized for the public good. May we not expect a cordial support?

THE "MILTON DEAL."

[Boston Sunday Globe.]

The "Milton deal," as it has been called upon the street, is finally settled and at an end. It was a great surprise to the outside public to observe a stock which had been selling at from 80c to \$1.75 the past year suddenly disappear from the list of the Mining Exchange and sell on the street at 25 a 30c. per share. The reason of this disappearance and the depreciation of the stock was owing to the collapse of what was known as the "Milton pool." We have investigated this matter pretty thoroughly and find that some six months ago Mr. George E. Harrington, well known in stock circles, conceived the idea of cornering the Milton Stock, and proceeded to manipulate it with that end in view. He made arrangements for sufficient capital to carry out his plans, but they fell through, owing to the action of the banks at the time of the suspension of the Pacific Bank, and on December 8 he was confronted with large contracts due with no funds to meet them. On this day Mr. Harrington was expected to provide for the payment of some 13,000 shares of the stock, representing in round numbers a value of about \$20,000. The operations had been large and to such an extent as to involve nearly the entire Mining Exchange. A meeting of the members of the board was immediately held, and it was deemed best to suspend the stock from the list and to give the pool further time to make arrangements for funds. At the expiration of the extended time, the arrangement on the part of the pool having failed, the fact was communicated to the Exchange, and a committee was appointed to confer with Mr. Harrington with a view to the adjustment of the difficulties. It was found that the aggregate of purchases was \$212,000, and the amount paid on account some \$40,000, and receivable on sales about \$30,000, leaving an actual liability of some \$140,000. A full and thorough investigation was made, and the result was a settlement between the pool and the members of the Exchange. The basis of settlement was 16,000 shares of Copperopolis, a return of all stock, a release from all contracts and a surrender of the \$40,000 paid on account. The manipulation of the stock was very boldly and shrewdly managed, and proved so successful that the stock was cornered and a short interest created of some 50,000 shares; and had the financial arrangements been carried out and the contracts met there would have been a profit to the pool estimated at over \$100,000. There have been rumors afloat connecting various persons and firms with the "pool," but from what we

can learn from reliable sources, the so-called "pool" consisted of Mr. Harrington alone. The Milton company is in no way responsible for the operations in its shares, and stands high among the New England mines. The confidence that the general public has had in the management of its superintendent has been and is unshaken. The work at the mine has been conducted most economically, and the machinery and methods used the best known in mining engineering. A settlement has been made by all interested, and the stock will be called at the Exchange to-morrow.

Personals.

DR. A. C. HAMLIN has been visiting Boston during the past week.

D. D. COOMBS, the Lewiston artist, is to remove his studio to Boston.

SUPT. DICKSON, of the Deer Isle Mine, visited New York during last week.

F. M. LAUGHTON, Esq., was called to Portland, Wednesday, on mining business.

PROF. FRANK STEWART has postponed his visit to the Pacific Coast, and will winter in New England, probably in Bangor.

JUDGE BENNETT, of the Black Hills, Dakota, is visiting Boston in the interest of mining claims in the vicinity of the celebrated Homestake mines.

HON. LIVERUS HULL, President of the Douglass Copper Company, and STEPHEN JENNINGS, Esq., one of the Directors, will soon visit the mine at Blue Hill.

LORENZO TAYLOR, Esq., returned to Portland on Tuesday from a trip to the Bagaduce, and is in high spirits over the prospects of the Manhattan and Tapley Mines.

MR. THOMAS BINNS, of the Boston Ore Milling Works, is now in the South engaged at Golden Valley, McDowell County, North Carolina, in superintending a mill for the Grayson Mining Company. The property of this company contains a vast amount of gold but the ore has not heretofore been treated profitably. A 30-ton amalgamating mill has been erected and it is anticipated by the new process now being introduced excellent results will be attained.

MAJOR WM. A. ROOKS has arrived in Boston from Wood River and brings flattering reports from that wonderful Idaho mining district. The mines in which he is interested are making excellent showings, and the Ontario has far surpassed all expectations. In the latter mine the workmen have opened a cave which is full of magnificent silver-lead ore and from which an immense amount of rich ore can be taken. A great boom is expected in the Wood River country with the advent of spring. During his stay in Boston the Major will make his headquarters at Room 25, Simmons' Building.

Dips, Spurs and Angles.

—A correspondent asks: "Who was the first aesthete?" Balaam's ass, because the Lord made him to utter.—[New York Tribune.

—A prominent lumberman in Burlington has had his coat-of-arms painted on the panels of his carriage, with the Latin motto, "Vidi." Which by interpretation is, "I saw."

—EPITAPH ON A WESTERN HOTEL: Peace to its hashes. Requiescat its soup bones in the barrel under the

dining-room window. Green grow the ghastly celery and cork-lined radish above its grave. Burn ever more on the shrine of its fragrant memory the non-illuminative kerosene that pallid the bed-room with its flickering gloom. And may its flame endure, even as the fadeless Eastlake pound-cake and the galvanized porter-house steak.—[Hawkeye.

—The Lewiston Journal says the clergyman who, on Friday last, opened the Supreme Court at Auburn with prayer, rather astonished the lawyers, to say nothing of His Honor. The venerable divine closed his petition with these words: "At last may we become dwellers of that Better Land where there are no lawyers, no judges and no courts. Amen." The Court bit its lip, the attorneys' ribs could hardly be restrained from shaking by the solemnity of the occasion, and business was not taken up until some time after the prayer.

—Up to Sunday morning at 2.40 o'clock two hundred and fifteen of the one hundred and ninety-eight survivors of the Balaklava charge had died in this country alone and been written up by the industrious and intelligent gentlemen of the press. At that hour another was added to the list in the person of a chronic drunk, known as "Jonathan Wilde," and "the body was removed to the Morgue." Several hundred of the gallant horsemen still bear up bravely against the whiskey which the reminiscence of that awful October 25th, 1854, compel them to take regularly and copiously.—[San Francisco Daily Report.

—Adam Gillespie was all broke up the other day, when some Aurora ladies and gentlemen coming from Bodie stopped to inspect the mill that Adam is running just this side of the latter town, for the purpose of separating the gold and silver left in the tailings of the Standard slum pond. Adam very kindly showed them all the machinery, even to uncovering one of the pans in operation. A young lady of the party, after gazing very seriously at the mixture for a few moments, looked up and wanted to know what in the world he was boiling that mud for? Exit Adam.—[Esmeralda (Nev.) Herald.

—In looking over the list of chairmen of the several house committees suggested by Mr. Speaker Keifer, one cannot but think he must have been governed as far as possible by appropriateness in the names as well as fitness in other respects. We have a Cannon for the military committee, Mills for manufactures, West for territories, Page for printing, Scales for weights and measures, Miles for mileage, Rich for public expenditures, and Rice for agriculture. The chairman of the committee on liquor traffic was Wait, which would seem to have been peculiarly inappropriate, as none of those fellows are apt to wait any great length of time after being asked.—[Colorado Transcript.

—Kotovskiy and Ellis, a brace of murderers, climbed the golden stair with the assistance of the hangman's rope on Friday, Jan. 6th, in this city. Ward and Baber will dance the same racquet on Friday, Jan. 13th. These hanging bees are occurring now with refreshing frequency. This paper unequivocally and emphatically is in favor of abolishing capital punishment according to the plan suggested by the Globe-Democrat. That paper sententiously murmurs: "Two more hangings in St. Louis to-day. Let the good work go on. We are opposed to capital punishment, especially in the form of wife murder. It must be stopped, and hanging is the only thing that will stop it."—[St. Louis Commercial Gazette.

—H. H. Ragan's illustrated lectures on travel, given in City Hall on Tuesday and Thursday of this week, were listened to by an appreciative audience. Three more lectures will be given in this course on Monday, Tuesday and Thursday, of next week. Those who enjoy lectures should not fail to attend these, for they are instructive and exceedingly interesting. The delivery of the lecturer is good, while the views are beautiful, large and true in nature.

CORRESPONDENCE.

Socorro, New Mexico, Mines.

SOCORRO, N. M., Jan. 9th, 1882.

To the Editors of the Maine Mining Journal:

SIRS.—I arrived here on the 19th ult.; since then have spent my time examining the different mining properties in the Socorro mountains, and also in the Magdalenas, 30 miles west of the town of Socorro. The ores of the Socorros are free milling, as has been proved by the Torrence 10-stamp mill, which commenced worked two weeks ago and has run continuously and successfully from the start, working the ores to 88 per cent. of the assay value, producing 1300 ozs. pure silver per day, paying at the rate of 12 per cent. per month on the original outlay of \$120,000!

The ores on and near the surface were low grade—from 10 to 20 ozs. per ton—but they gradually improved as they attained depth. The Torrence is the only mine that has a mill, but there are other mines on the same lead equally as good. The Merritt, adjoining the Torrence on the southwest and on the same lead, shows the same ore in large bodies in several openings along the vein, but they are not working it at present. The Torrence is down 220 feet on an incline of 45 deg. west, and the stopes above that level are yielding 40 tons of good ore per day with large quantities in the reserves.

The Magdalenas are low grade argentiferous galena and carbonates on the surface, but improving in value as they get into the veins. There were several hundred tons of bullion shipped from there from 1865 to 1870, reduced in the old style Mexican furnace, all of it taken from near the surface. I will try and get the statistics and advise you in my next. There are several companies now working on a large scale, among them the Graphic and Juanita. The Graphic is shipping ore by team to the railroad. The Juanita is also opening up a large body of good ore similar to the ores of Eureka, Nevada.

The climate is all that could be desired. I camped out three nights last week and did not feel any inconvenience from cold; all the coverings required for two of us were two pairs of blankets and a buffalo robe. There are no Indians at present, but parties going into the mountains go prepared to meet them. I intend going to the Black Range in a few days and will write you particulars on my return.

THOS. CAHILL.

Scientific Mining.

SANTA FE, N. M., Jan. 9, 1882.

To the Editors of the Maine Mining Journal:

SIRS.—The other day I heard an anecdote about "Scientific Mining," but as I am unable to reproduce it in the original language of the narrator I must take what I can remember of his version as a text and supply the rest from my own imagination.

Once upon a time, not many years ago, on the western slopes of the Andes Mountains in Chili, a long, thin, gold-spectacled, utterly scientific old Teuton might have been seen rambling round in search of scientific problems, etc., etc. One day this interesting old fossil happened upon an extensive collection of waste heaps, ruined buildings, fragments of broken and rusted machinery, etc., that he rightly conjectured to be the site of an abandoned mine, which by the numerous indications around him he there and then concluded had seen "better times." There being no person near from whom he could obtain information as to the previous history of the mine, he sat down upon an old rusty mitre wheel, that to judge by its scarcity of teeth must have seen many moons pass over its head, emptied a canteen of whiskey that he always had the foresight to carry with him in case of snake bites, and gave himself up to square and solid thinking, jotting down from time to time such ideas as came into his head on the margin of an old newspaper. In the midst of his meditations he fell asleep. Waking after an indefinite period with a start, he collected his scattered thoughts, thrust his newspaper into his pocket and took a bee line for the nearest town. On reaching his destination he deciphered as many of the marginal notes as he could be expected to do on so short a notice and determined to investigate the history of the abandoned mine. His enquiries led to the following results: In former years the mine had been successfully worked for copper, but on attaining a considerable depth the influx of water and increasing poverty of the ore caused the suspension of work to be inevitable. He filled his canteen again, emptied it, wrote more hieroglyphics, went to sleep and woke again ready to write to prominent capitalists for the wherewithal to reopen the mine to be worked on a purely scientific principle. The matter ended in the old man's being given a *carte blanche* to do as he pleased, and this is the result.

In the first place he erected several powerful windmills on the

highest points of the surrounding country within a radius of about 10 miles from the mine, in order that should one be without wind some of the others would probably be able to perform their functions. With each of these motors was connected a powerful dynamo-electric engine. The current thus generated was conducted by means of wires to a common junction where by an ingenious contrivance any of the mills could be switched off at pleasure. Next, two capacious gasometers, one double the capacity of the other, were erected near the mouth of the shaft, connected with the latter by means of tubes that reached into the bottom of the sump. Two electrodes from the electric switch were conducted down the tubes, one in each, viz., the negative pole in that connected with the larger gasometer and the positive with the lesser. The effect being, on "turning on" the electricity, that the water in the sump was decomposed into its elements, hydrogen and oxygen, the former collecting at the negative and the latter at the positive pole, the two gases being conducted up the tubes to their respective gasometers. Thus, with an almost nominal amount of working cost, the problem of overcoming the expense of pumping was solved. Some difficulty was at first experienced in maintaining a pressure in the gasometer, but by using a deep sump and conducting the tubes to the bottom this was finally overcome.

These gases, held separate in the two gasometers, were subsequently used instead of fuel for roasting the ores in specially constructed furnaces, for it is well known that oxygen and hydrogen combined together in proper proportions burn with an intense heat. The ores were then leached and the copper precipitated by means of an electric current. The fumes from the furnace, on account of the high temperature, had to be constructed of an unusual length to produce complete condensation of the volatile constituents of the ore, so that our friend, the professor, hit upon the happy idea of conducting the hot air finally up to the region of perpetual snow, near at hand, by which means the snows were melted and the water conducted by suitable channels to the mine for running the concentration mills.

The winding of the ore out of the shaft was also an original invention having the same object, viz., economy, in view. The shaft was fitted with suitable and perfectly true guides for the frame to which the buckets were attached to run in. A powerful electro-magnet was affixed to a cross-head at the mouth of the shaft and a suitable bar of soft iron or steel fixed onto the hoisting frame. It is therefore easy to see that by means of a key the electric current could be closed or broken at pleasure, thus magnetising or demagnetising the magnet. In this manner the buckets were hoisted out of the mine without steam or expensive machinery and perfectly under control. To lower the buckets, the current was disconnected, and the tubs allowed to fall of their own gravity to within a short distance of the bottom, when they were checked by the magnet and arrived gently at their destination. It was claimed the works were a success.

R. A. VARDEN.

LODES, LEADS AND VEINS.

DEER ISLE.—The cargo of ore from Deer Isle has arrived at the New England Smelting Works.

Bagaduce.

ROSIER.—Development work is progressing rapidly in every department of the mine. A cargo of copper ore was shipped from the mine by vessel on Saturday to Portland.

MANHATTAN.—Excellent progress is being made in the drift and about forty tons of high grade copper ore have been taken out during the past ten days. The vein retains the same characteristics and the width is now better than ever before. A shipment of ore will soon be made to the Portland Smelting and Reduction Works.

TAPLEY.—Work is progressing actively and the shaft is being sunk rapidly by day and night crews. A contract has been let for sinking the shaft 100 feet.

HERCULES.—The Hercules Mining Company has been reorganized as the Hercules Copper Company, and the business of reorganization was brought about in a satisfactory manner in Portland on Wednesday. The new company is incorporated on an assessable basis and has the following strong board of officers: President, E. Dana, Jr., of Portland; Treasurer, J. N. Lord, of Portland; Secretary, B. Barnes, Jr., of Portland. Directors, E. Dana, Jr., J. N. Lord and John M. Peck, of Portland, John R. Bodwell, of Hallowell, Hanson Gregory, Jr., of Rockland, F. P. Haviland, of Waterville and H. H. Emerson, of Ellsworth. Supt. Emerson was in attendance at the meeting and made a very flattering report in regard to the developments now in progress at the mine. The Hercules is showing a large quantity of fine ore and the prospects of the mine are exceedingly brilliant.

Blue Hill.

DOUGLASS.—Mr. George Thompson, the new Manager at the Douglass, has for several years had general charge of the extensive works of the Huntingdon Copper and Sulphur Company, of Dillonton, P. Q. The new mine captain, or superintendent, is Mr. A. Whyte, a gentleman of great practical experience. We are informed that the cupola furnaces are running splendidly and turning out a high grade of matte.

STEWART.—Day and night shifts are now employed in both shafts, and excellent progress is being made.

GRANGER.—The Granger Mining Company have levied an assessment of five cents per share.

Sullivan.

PINE TREE.—A. A. Messer, Supt. for the Pine Tree Silver Mining Company, furnishes us with a few facts of interest relating to the improvements made upon the Pine Tree property during the past season. The shaft house has been greatly enlarged and rebuilt and is now 65 feet long by 24 wide with a wing 27x20 feet attached. In the basement of this wing the boilers will be set. Over the boiler room two rooms have been fitted up for an office and sleeping apartment. A large hoisting frame has been erected, second to none in the district for safety and strength. 650 feet above the works a dam has been constructed across a never-failing stream of fresh water; from this point a 2-inch pipe has been laid, 5 feet underground, leading to a tank at the works capable of holding 10,000 gallons, from which water can be carried through pipes to all parts of the works. A fine and substantial wharf, with a frontage of 80 feet, has also been constructed, where vessels of large size can lie with safety, there being 12 to 13 feet of water at low tide. The wharf is so situated and in such close proximity to the works that, if necessary, ore could be taken directly from the stopes to a vessel without extra handling. Mr. Messer has made these improvements with a view to convenience and economy, and when the machinery is put in, which we hope will be soon, everything will be in the best of order for the rapid and systematic development of the mine. It is the intention of the company to purchase the most improved and complete machinery adapted to the work, sink the shaft at once to a depth of five or six hundred feet and fully develop the mine to that level. As there is every possible indication that large bodies of good ore underlie the Pine Tree property, we are highly gratified to note these preparations for extensive work, and fully believe the mine has a prosperous future in store for it.

MILTON.—During the week very good progress has been made in the No. 1 winze, sinking on the vein, and are holding the same good character of ore as last week. The ground in No. 2 winze still remains favorable, and good progress has been made during the week. The face in the south level continues hard, but the Burleigh drill running constantly night and day makes quite an impression on it.—[Bulletin, Jan. 14.]

New Hampshire.

A valuable mica property has recently been discovered in Grafton, Grafton county, in the vicinity of the famous Hartford Mica mines. The property is thirteen acres in extent and contains an immense amount of very superior mica. Boston parties are interested in this discovery.

SILVER LAKE.—The concentrating mill is running steadily and doing effective work. The mine has a large amount of ore on its dump and much richer ore is being taken out at present from the tunnel. The mill is now turning out two tons of concentrates per day and this will be shipped to the New England Smelting Works for reduction.

Vermont.

A very promising discovery of copper has recently been made in the town of Sunderland, in the State of Vermont. The vein is of large proportions and has been traced a long distance on the property. A large number of tests have been made of the ore and a considerable quantity of gold and silver has been discovered. Mr. Thomas Binns, of the Boston Ore Milling Works, has examined the property and made a very encouraging report. We shall make additional reference to the matter in a future issue.

Massachusetts.

ORIENTAL.—We have received the prospectus of the Oriental Mining Company, whose mining property at Newburyport, Mass., has previously been referred to in these columns. The Company is composed of well known business men of New England, and is organized with a capital stock of \$250,000, divided into 125,000 shares, a portion of which is now, for the first time, offered to the public. The funds required to place

the mine in its present advanced stage of development have been wholly supplied by the promoters. Two shafts have been sunk upon a vein from four to six feet in width, which have reached a depth of 85 and 60 feet, respectively. Both are covered by substantial buildings, and the equipments include a 30-horse-power boiler, Knowles pump and other extensive machinery and tools. The ore is a rich argentiferous galena, the value of which, as shown by numerous tests and mill runs at the Boston Ore Milling and Metallurgical Works and the New England Smelting Works, varies from \$93 to \$132 per ton. The Company hold title to 13 acres of land, comprising over 1100 feet length of vein, located about four miles distant from the city of Newburyport, Mass. The office of the Company is at 235 Washington St. Boston.

British Provinces.

Mining licenses on Crown Lands in Kent County, will be offered for sale at the Crown Land Office, Fredericton, on Feb. 1.

A discovery of gold-bearing quartz is reported to have been made recently on the Guysboro road, two miles east of Fall River.

The St. John Telegraph says the Elm Tree Silver Mine, in Gloucester, is a most promising property. The latest New York assay gives the value of the ore as \$180 in silver and \$70 in lead per ton.

The Renfrew Gold Mining Company, a Maine incorporation, Dr. J. H. Rae General Manager, has declared dividend number one, of two cents per cents per share, or one per cent. on the capital stock, aggregating \$600.

The Woodstock (New Brunswick) Press states that a fine deposit of copper ore has been found on the farm of John Fisher, Sr., at Woodbank, Upper Woodstock; and that arrangements are being made to organize a company to develop it.

The Hall-Anderson Company, at Fifteen-Mile Stream, Nova Scotia, are running a 10-stamp gold mill on their extensive property, and making regular shipments of bullion. The property is now owned by a party of New York capitalists.

John R. Bothwell, Secretary of the Satemo Gold Quartz Company, has recently been on a visit to the company's mines at Tangier, Nova Scotia, with a party of New York stockholders. A Halifax dispatch states that after a thorough examination of the mines, mills and other equipments, Mr. Bothwell pronounces the Satemo a perfect success, and says it will pay dividends at once.

KINGSTON IRON MINES.—5,316 tons of iron ore were shipped from Kingston, Ontario, to the States during 1881. The chief mine of the Kingston district is the "Mississippi," on the Kingston & Pembroke R. R., owned and worked by a New York State firm, employing 150 hands. There are also the Levant, working 75 men; the Caldwell, 50 men; the Madawaska, 25 men, and the Glendower, employing 25 men; in all 325 persons engaged in iron mining in the Kingston district, representing something over 1600 souls dependent upon this industry.

MICHIPICOTEN.—The Michipicoten Native Copper Company, an English corporation, are pushing mining operations on a large scale at Michipicoten Island, Lake Superior, sparing no expense in development and doing everything in the usual thorough and substantial English style. They have several shafts down, varying from 60 to 100 feet in depth, and employ nearly 100 men. An abundance of good stamp rock, averaging about 2 1-2 per cent. copper, is found, but no masses have yet been discovered. The shares are quoted in London at £1 1-8 to £1 1-4.

LAKE SUPERIOR.—The Lake Superior Native Copper Company is also an English organization operating at Mametase, on the North Shore of Lake Superior. Several thousand pounds have been expended in exploring the property (covering ten square miles of territory) in order to determine the most favorable locations for sinking shafts and erecting machinery. The Company are now sinking two shafts and preparing for extensive operations. In addition to the native copper vein, there are veins of sulphurets and carbonates on the property, carrying from 30 to 70 per cent. copper and 20 to 60 ozs. silver per ton. This property, as also the Michipicoten, was purchased some time since from the old Quebec and Lake Superior Mining Association, a Canadian company which expended a large sum of money in prospecting and exploring that section of country.

COXHEATH.—The property of the Coxheath Mining Company is located at Coxheath, about eight miles from Sydney, Cape Breton. The company own 640 acres of land on which the lode is located, and have grants for several miles for development. They are down in one shaft 60 feet and are drifting on the vein, while the ore now being taken out will run from 8 to 16 per

cent. copper. The lode is said to be well defined for something over 1,000 feet. They are prepared to work all winter, having all necessary tools and explosives on hand before winter set in, and have contracted for several more shafts to be put down. The mine is only four miles from tide water, and the company propose building a tramway from the mine to the bay where they contemplate erecting a smelter. Labor is cheap and coal can be procured there at a price not exceeding \$2 per ton. Three large collieries have their shipping point at a distance of not more than five miles from the Coxheath Mine.

Croppings.

[Compiled, Condensed and Confiscated from our Exchanges.]

The bullion shipments from Silver Reef, Utah, during 1881 amounted to \$743,863.42.

There are now consumed annually in the United States over 60,000,000 pounds of copper.

Utah has 750 miles of railroad in operation, 410 in process of construction and as much more projected.

A number of English capitalists have gone to Silver City, Arkansas, and a big move in the mining business is expected.

The production of copper by the Lake Superior mines during 1881 amounted to 34,102 tons; an excess over 1880 of 2,602 tons.

Geo. D. Roberts denies that he has purchased the Mayflower and Jay Gould mines, two valuable Wood River properties, as announced by the Hailey Times in a recent issue.

The yield of iron ore in the Marquette and Menominee districts of Michigan for 1881 will reach nearly 2,400,000 gross tons, according to the Portage Lake Mining Gazette.

It is stated that the results of recent geological explorations in Russia, made by official direction, show the existence in that empire of phosphate deposits sufficiently extensive to supply the wants of Europe for an indefinite period.

The Salt Lake Tribune's New Year edition is a mammoth sheet and, withal, a marvel of excellence. It contains a complete review of the work accomplished and bullion produced during 1881 in the leading mining districts of Utah, Idaho, Montana and other Territories. The Tribune is one of the ablest and most enterprising newspapers west of the Mississippi.

The annual production of the precious metals in the States and Territories west of the Missouri River, including British Columbia, and the receipts at San Francisco from the west coast of Mexico, were, gold, \$31,869,686; silver, \$45,077,829. California shows an increase in silver and a decrease in gold. Nevada shows a falling off and Utah, Colorado and Arizona show an increase.

New York must now be counted as one of the petroleum-producing States. The output in what is called the "Alleghany field" is now 3,947 barrels per day, and will be much increased by new wells which are in process of completion. The extent of the New York oil territory is entirely undetermined. For all any man knows "the belt" may stretch in a northeasterly direction across the State.

In addition to the regular dividend of 10 cents per share, paid at New York the first of the month by the Copper Queen Mining Company, of Arizona, it is reported that an extra dividend of 20 cents per share was paid at the same time. This is equivalent to nine dividends of 10 cents each since July 1, 1881, aggregating \$225,000. This mine produced nearly 5,000,000 lbs. of copper in the last six months of 1881. A new furnace will be added in a few weeks, when the monthly output can be increased to 1,250,000 lbs. of copper.

UNADILLA.—The most promising vein opened here during the last year, says the Georgetown (Col.) Courier, of January 12, is the Surprise lode, owned by the Unadilla Mining Company, of New York, located up Mill Creek about one-fourth of a mile. The crevice is of a feldspathic nature, and about three inches of nearly solid ore has been exposed, the character of which is not peculiar to this section, being an argentiferous galena ore carrying argentine, stephanite, azurite and malachite, from which assays have been obtained as high as 4,000 ounces of silver to the ton.

—B. Barnes, Jr., of Portland, is receiving large orders for copper, zinc and lead ores and advertises to buy the same, paying the highest market prices. Copper and zinc ores are in quite active demand at the present time and it would seem to be a good plan for our mining companies to go to work and take out ore and ship it now while prices are good.

The Rooks Group of Mines, Wood River, Idaho.

[Salt Lake Tribune.]

THE WARM SPRINGS CONSOLIDATED MINING COMPANY, W. A. Rooks, Manager, have sixteen locations on Warm Spring Creek, located from eight to twelve miles from Ketchum.

THE WARM SPRING MINE has a three-inch vein at the surface, which enlarges to five feet at a depth of thirty feet. The ore is part galena and part quartz, between shale and galena. The mine has had \$500 worth of work done, and twenty tons of ore lie on the dump, which assays 100 ozs. silver per ton.

THE NORTH STAR is the best developed mine, having between 900 and 1,000 feet of tunnels, shafts, drifts and winzes. Large quantities of ore are standing ready for stoping out. 300 tons are on the dump, and the ten tons shipped went 92 ozs. silver per ton and 50 per cent. lead.

THE ONTARIO has two tunnels run on the ledge, one of which is 210 feet in length and the other 233 feet, the headers being 400 feet apart. This vein shows the most continuous strata of galena of any of the mines. Eleven men are working in this mine during this winter. The ore averages 144 ozs. in silver and 63 per cent. lead. Sixty tons were sent to market the past season. This mine is in white porphyry, with soft foot and hard hanging walls. The vein has from one to five feet pay ore and 300 tons lie on the dump.

THE SUNDAY has a tunnel and incline on ore running from 40 to 412 ozs. silver, milling quartz, from one to three feet wide; shows some native silver and gold—the first found on Boyle Mountain. Thirty-five tons of ore are on the dump.

THE HATHAWAY AND NIAGARA are both good, the latter having 400 feet of inclines and tunnels and the richest class of ore, running up to 993 ozs. silver and 65 per cent lead. The Black Horse, Irvine, Ten Broeck, Lone Star and a number of other locations are good prospects and considerably developed.

Commercial Value of Metals.

Prof. Henry G. Hanks, State Geologist of California, who is a manufacturer of and dealer in rare metals and chemicals, gives the following table showing the commercial value of the different metals:

	Price per pound.
Iridium.....	\$2,520.00
Vanadium.....	2,520.00
Ruthidium.....	1,400.00
Rhodium.....	700.00
Palladium.....	650.00
Uranium.....	576.58
Osmium.....	325.28
Iridium.....	317.44
Gold.....	301.46
Platinum.....	115.20
Thallium.....	108.77
Chromium.....	58.00
Magnesium.....	46.50
Potassium.....	24.00
Silver.....	15.85
Cobalt.....	7.75
Cadmium.....	6.00
Bismuth.....	3.63
Sodium.....	3.20
Nickel.....	2.50
Mercury.....	.42
Tin.....	.22
Copper.....	.19
Antimony.....	.14
Arsenic.....	.10
Zinc.....	.06
Lead.....	.05
Iron.....	.02

EASTERN INDUSTRIES.

LOCAL NOTES.

During the year 1881, the following amounts of corn, flour and feed were received at the Maine Central station in Bangor: Flour, 69,700 barrels; corn, 158,500 bushels; feed, 2,310 tons.

Atwood J. Cobb will at once build a steam circular-saw mill on the shore of Dexter Pond, where he will manufacture boards, shingles, laths, etc. He intends to be ready for business by the first of May next.

Gen. Daniel White, successor to T. J. Coney & Co. and White & Fairbanks, continues the manufacture of domestic and toilet soaps with a quick demand for his products. His factory is located on Morse's Lane near the Kenduskeag stream.

The Florist may be considered as carrying on a business of a truly æsthetic nature and requires a rare taste and skill to be eminently successful in his business. That a cultivated artistic talent may be quite at home among the flowers is well shown by the business success which has been achieved in that line by Mr. F. H. Moses, of Bucksport. His glass roof buildings have become lengthy blocks by additions and now contain about 7,000 square feet of glass. The whole is heated by 3000 feet of 4-inch iron pipe which is kept filled with hot water received from three large boilers and is among the most elaborate and

best arranged in the State. One rose house is 65 feet long by 22 feet wide and those devoted to violets, pinks and other beauties in the floral line are nearly as large. His largest sales are made to the wealthy classes of our cities who have summer homes at Bar Harbor. They are all very liberal patrons of his store there which is kept open during the summer season. This fact affords one illustration among the very many which might be cited showing the benefits received from our summer visitors. Mr. Moses imports his seeds direct from C. Plats & Son, Prussia, and his bulbs from Holland. He is connected with Bangor by telephone and desires to help supply the wants of the State.

MOCCASIN MANUFACTURE.—Perhaps few are aware that more goods in this line are turned out yearly in Bangor than in any other and, indeed, in all other places in this country combined. The origin of the moccasin was an Indian idea, but the improvements in stock, make and styles of the present day show Yankee skill and ingenuity in contrast with old Indian arts. Messrs. Margeson & Son commenced the business here to some extent in 1852. The present firm of J. O'B. Darling & Co. commenced the manufacture as a specialty in 1861 and have continued to enlarge their facilities up to the present time in order to supply all increasing demands. They have on their books the names of regular customers who have purchased yearly of them during the past 18 years. The firm use the best stock that can be made, and their long experience and improved machinery run by steam power, with a perfect system of division of labor, have enabled them to produce the best goods at the lowest possible cost. Their market extends from the Dominion to Colorado. They have cut 15,000 sides of leather the past season and paid out \$15,000 to their workmen. As showing their care in sending out only good goods, one customer claims only one dollar and fifty cents for deductions on a lot of 18,000 pairs. Moccasin leather as now prepared is a perfect non-conductor of water and also very much so as regards heat and cold, and its use is increasing in warm countries from its quality in giving ease to the foot of the wearer. A merchant from Chili, South America, who recently came here for the purpose of contracting, has left extensive orders with this firm with offer of cash in payment before the goods are shipped. They have now the matter under consideration of enlarging their facilities to meet the demands of the South American market. This firm continues to hold the leadership in the manufacture of moccasins, boots, shoes and brogans and plough shoes and plough boots.

AROOSTOOK COUNTY.

Caribou seems to be one of the county's most prosperous towns. Its population is now 3000, and during two years there have been added 11 stores, a saw and shingle mill, a large addition to the capacity of the starch factory, 2 halls and 40 dwellings.

ANDROSCOGGIN.

Lewiston cotton mills employ 4,100 girls and women, three quarters of whom are unmarried.

The Lincoln Mill property, at Lewiston, has been sold by the Franklin Company to the Lincoln Mill Corporation for \$250,000.

The Chandler & Silver Water Motor Company, Lewiston, are full of work and will probably make arrangements soon to enlarge their shop, to enable them to fill orders more promptly.

The production of men's goods in Auburn, increases from week to week, and is double that of last year at this time. Shipments of all classes are gaining, footing up 1366 cases last week, against 1339 cases the previous week and 781 cases for the corresponding week of last year.

The business of the Auburn postoffice for the quarter ending Dec. 31st, 1881, increased 185 per cent. over the business for the corresponding quarter of 1868. The increase over the corresponding quarter of 1880 was 34 per cent. The increase for the whole year 1881 over 1880, was 12 per cent.

There are nearly 2,000 shoe-makers in Auburn, and they made in the year 1881, 77,876 cases of shoes. So many shoes were never before made in Auburn in one year. Ten years ago, in 1871, the annual production was 40,000 cases. \$1,000,000 capital is invested in shoe manufacturing in the city, and the value of the annual product is \$3,000,000. 5,000,000 pounds of leather have been required to make the past year's shoes.

The Lake Auburn Mineral Spring Co. held their annual meeting Tuesday afternoon and elected the following officers for the ensuing year: J. L. H. Cobb, John N. Wood, E. T. Gile, A. T. Bean, Guy C. Goss, Directors; J. L. H. Cobb, President; F. M. Drew, Secretary; John N. Wood, Treasurer. We understand the Company makes the best exhibit for the past year it has ever made. It has recently shipped several car-loads of water to Boston and New York. Mr. Lindsey will probably run the Hotel next season.—[Lewiston Journal.]

CUMBERLAND.

The Portland Kerosene Oil Works are now shipping 150 barrels of oil daily.

The Wire Company at Harrison are full of business, and unable to fill orders as fast as they are received.

D. W. Clark & Co., Portland, Me., have contracted to furnish annually to Philadelphia parties 25,000 tons of ice for five years.

The total value of foreign exports from Portland during last week was \$300,106.83. Included in this were 386,580 feet of lumber.

The Portland Rolling Mills have commenced the manufacture of iron rails. Their first order is from the Portland & Ogdensburg R. R. for seventy-five tons of rails.

The Portland Company have completed another locomotive for the Canadian Pacific Railway. Several of the New Brunswick & Canada locomotives which were recently damaged by fire are now being repaired by the Portland Company.

Ship building in East Deering is having a respectable boom just now. In Russell's yard two schooners and a barkentine are being built for Portland parties, and in Merrill's yard work upon a bark has been commenced by Stephen Sargent & Son, for R. Lewis and others.

It is understood parties interested in the affairs of J. Winslow Jones & Co. are to leave at once for Europe to close up the present English connections with the concern and that immediate steps are to be taken towards forming a new company. It is said that Mr. Jones intends if possible to pay his indebtedness in this country in full.

PORTLAND MANUFACTURES.—A correspondent sends us the following: Portland is never known to boast of her manufactures, and yet she can present no mean array of them. Hardly an article of common use exists that she does not manufacture, if we except certain lines of light steel and iron. Recently an improved method of making paper boxes has been added to the list. By this ingeniously constructed machine, a paper box that needs no twine to fasten it is constructed capable of holding water even. No paste, glue or twine is used, and 20,000 per day can be turned out on one machine. What next? The only thing necessary to the rapid increase of population with us, is the increase of light manufactures. Our capitalists are slowly learning this lesson and are beginning to extend a helping hand to poor, but industrious and deserving mechanics. Worcester, Mass., presents a striking illustration of the truth of this. That city is not only full of manufactories for small wares, but her capitalists put up extensive buildings containing steam power, sections of which are, at a small rental, let to industrious mechanics who have a limited capital. Sooner or later Portland will have to adopt this plan, or fall back and let her more sagacious sister cities push into the line ahead of her. We have a gold stamp mill, now idle, but we hope soon to resume operations; a smelting establishment, and now it is talked about building a "blast furnace" for reducing iron ores to pig metal. It is understood that a company is being formed, with sufficient capital to put upon the market the ores of Casco, under the name of the "Iron Mountain Co." These are the "mag-netities."

FRANKLIN.

Sheep raising is becoming an important interest in Franklin county, flocks of 75 and 100 being quite common. The farmers secure lambs for the market in March or April, at prices from \$7 to \$10 each, and find it profitable.

E. E. McLain has just commenced a new enterprise at Mew Vineyard, Me., in the form of a box factory. The proposed building is 57 by 28 feet and two stories high. He has four of the Weymouth variety of turning lathes, costing \$222 each, capable of completing fifty gross a day each of turned wood boxes, mostly used by druggists.

HANCOCK.

The Collins Granite Company, whose quarries are at East Blue Hill, have been awarded a \$50,000 contract to furnish cut granite for the building of the New York Produce Exchange.

E. J. Swan, of Franklin, having, as recently stated by us, purchased Messrs. Scammon and Williams' business interests in that town, including their mill and timber lands, intends to improve the machinery in the mill and is doing an extensive business in the woods this winter. We agree with the Ellsworth American which says that Mr. Swan is one of the most energetic business men in the county.

KENNEBEC.

The Hallowell Granite Co. are increasing their force of workmen, and now have about a hundred men employed in the sheds. The Company have no large building contracts on hand at present, but are engaged mostly on monumental work. They are cutting a granite mausoleum for Charles Davis, of Clevel-

land, Ohio, which will cost \$12,000. It will go into the cemetery in which President Garfield's remains are interred. They are also getting out some magnificent work for wealthy gentlemen in Pittsburg and Philadelphia. Two soldiers' monuments are under way at the yards, one for Auburn, Me., and the other for Beverly, Mass.—[Kennebec Journal.]

Business is brisk at the yards of the Hallowell Granite Company, and new buildings are being added. A beautiful work of art just completed is a private monument for a gentleman in Collegeville, Pa. It is an Egyptian column pedestal surmounted by an eight-foot semi-nude statue of Hope. Its entire height is 32 feet; cost, about \$5,000. Another splendid private monument for a gentleman in Pittsburg, Pa., to be finished next month, is 12x9 base, 40 feet in height, and having figures of Hope and Charity resting on the pedestal at the foot of the column, which is 26 inches in diameter and surmounted by a full Corinthian capital, upon which stands the statue of the Recording Angel, eight feet high, the whole forming one of the most artistic pieces of work ever executed in granite; cost, about \$10,000. Other works of art are in various stages of completion.

KNOX.

Work at the Anchor Factory in Camden is very brisk, an extra gang being run nights in order to fill the contracts. A large lot of old railroad iron has just been landed at the works.

There have been shipped to Boston from Friendship since last October by N. Thompson, Cook and Wm. Geyer, 17,885 pounds of hake sounds amounting to ten thousand eight hundred and eighty-five dollars. Last year the same parties shipped 18,341 pounds and the fishermen received from them eighteen thousand three hundred and forty-one dollars.

The Camden Herald says the enterprising firm of Miller & Cleveland are now at work arranging the upper part of the two stores occupied by them, for the manufacture of shirts. Button-hole, eyelet and sewing machines will be placed in the rooms, all to be run by water-power, a wire being run from the anchor works to their building, which will save a great deal of time and labor. Some time ago this firm began the manufacture of shirts on a small scale, doing the cutting at their store, and hiring the sewing done in this and neighboring villages. They now propose to do a large business, having nearly all of the work done at their store. They also do a large business in the ready-made clothing line.

OXFORD.

A new iron bridge is being constructed across the Androscoggin near the steam mill village in Canton, and is progressing finely. The abutments are nearly completed and work on the piers will commence this week and will be put forward with all possible dispatch. The structure will be built by C. S. Palmer, of Cleveland, Pa., with whom a contract is made. It will be 450 feet in length. If the weather is favorable it is expected to have it ready for travel in March.

PISCATAQUIS.

L. H. Dwelley & Co., of Foxcroft, are receiving orders from Germany for the fine spools of their manufacture.

SAGadahoc.

Work is lively at the Richmond shoe factory. The shipments for the week ending January 12, were 222 cases and 36 pairs; or 13,356 pairs.

Goss & Sawyer of Bath, are building a center-board schooner of 650 tons coal capacity, to be commanded by Capt. Harlow Arer, of Rockland. They have also contracted to build a three-masted center-board schooner of 650 tons register for Capt. A. A. Duncan, of schooner Geo. V. Jordan.

SOMERSET.

H. Clark & Co., of New Portland, are manufacturing riveted moccasins,—double the quantity of last year.

In point of business done, Skowhegan is the seventh town on the Maine Central R. R. and its branches in the State. The earnings of this station for 1881 were \$79,336.

The manufacture of calks for lumbermen's shoes is an important industry at Bingham. This season it is expected that 3,000,000 or more will be made, which will be shipped to all parts of the United States and Canada where lumbering is carried on.

Mr. Linn, proprietor of the Woolen Mill at Hartland, is putting in new machines for feeding on the cards, and also contemplates other improvements. The factory has been running over time for the last three months; the operatives make good wages and all seem prosperous.

WALDO.

The Belfast Age says matters at the Foundry now look considerably like business. The Foundry and Machine Shop keep up their force of men; one pattern maker has been added to

that force; Pottle and Cates are getting in stock and preparing for a busy summer's work; the upper story of the building is being cleared and machinery put in for making ship's blocks; and in the yard is a large amount of red granite which is to be cut in the sheds near by.

C. J. Hall, of Belfast, has built a large boarding house near his red granite quarry, at Otter Creek, Mount Desert, and will carry on an extensive business the coming summer.

The Journal says the kit factory operated in Belfast the past season by J. T. Pottle, has been sold to Charles E. Lane of Brooks, and the machinery will be moved to that town.

WASHINGTON.

Fourteen vessels loaded at St. Andrews' Bay and Eastport with frozen herring during the cold week, besides the steamer Falmouth which was heavily loaded on her Thursday's trip, taking from Eastport 1080 barrels or 400,000 herrings, making in all 2,800,000, for which there was paid to the fishermen between \$14,000 and \$15,000.—[Sentinel.]

The Calais Times publishes a call for an important meeting at Cherryfield on the 27th instant. All the towns of Washington and Hancock counties, having an interest in the projected Bangor and Calais Shore Line railroad, are requested to send representative men to attend an important conference. A gentleman, having full power to speak for an association of capitalists, will be present and submit to the meeting a liberal proposition for building the entire road.

YORK.

NORTH SHAPLEIGH.—This place is on both banks of the Ossipee, partly in Shapleigh, and partly in Newfield. As early as 1799 Joseph and William Linseott had a saw mill here. Sometime after a saw and grist mill were built on the Newfield side by Messrs. Horn and Twombly. In 1816 Benjamin Pillsbury opened a store and commenced trade. Simeon Towle did business here in this line for a short time, likewise Daniel Lewis and several others. James Collin began trading here 20 years ago and still continues in the business. A bed of iron ore was discovered upon the banks of the Little Ossipee about a mile above this place on the Shapleigh side. In 1836 this was purchased by Huse & Co., Newburyport, and an extensive blast furnace erected. While this was in operation business increased, but the ore bed proved to be small, therefore after a few years it was abandoned. The building and water power were used for a while for a box making establishment and also for a hat manufactory. In 1844 a woolen factory was put in operation by J. Hargrave & Sons, and, although not a large mill, it has been in operation most of the time since, and the business it has done has been the means of building up quite a thriving village.—York County Advocate.

BRITISH PROVINCES.

The Duryea Experimental Furnace Company, of Cleveland, Ohio, will shortly erect works at Ottawa for smelting iron and steel with petroleum as fuel.

The value of Canadian goods consumed yearly in British Columbia, has in ten years increased from thirty-two thousand to four hundred thousand dollars.

This immigration returns for the province of Ontario for 1881 show an increase over the previous year of 9278. The number that emigrated to the United States was 10,487 in excess of 1880.

An International Colonization Company, with a capital of \$10,000,000, has been formed at Toronto, Can., by a number of wealthy Israelites for the purpose of emancipating the Russian Jews. The purpose is to secure 500,000 acres of land in the Northwest Territory on which to establish a colony.

Messrs. Foster & Son's Nail and Tack Manufactory, at St. John, now employs from 35 to 40 hands, and the factory is kept running constantly throughout the summer and winter on full time. There are thirty machines on the premises, and some 320 kinds of nails and tacks are made. Messrs. Foster & Son's is the only manufactory of the kind this side of Montreal, and it is the third largest in the Dominion. The capacity of this factory for nails is 18,000 kegs per annum, consuming some 900 tons of plate iron, all of which is made at J. Harris & Co's Rolling Mills on the Straight Shore. Tacks, brads and shoe nails, of almost infinite variety, are made here, and find a ready market all over the Dominion. Messrs. Foster & Son state that trade is improving with them, and all their products are finding ready sale.—[Maple Leaf.]

Railroad, Steamboat and Hotel Notes.

Messrs. Miller & Sanborn, contracting builders, have a large gang of men at work on Hotel Bartlett, at York. The building is covered in and some of the finish is on preparatory to

clapboarding. Mr. Evans, the proprietor, is a live man and proposes to keep a first-class house.

Capt. S. Weare Norton has made an addition to his stable at Cape Neddick and proposes to keep a first-class hostelry, a thoroughly temperance public house, and travelling salesmen and others desiring the comforts of a home with all the freedom of a hotel will find his a pleasant place to stop at.

The Rockland and Blue Hill Steamboat Company, at their annual meeting, held in Rockland last week, chose the following board of directors: George Gregory, H. H. Crie, John Bird, Chas. H. Berry and A. M. Shaw, all of Rockland; W. B. Thurlow, of Deer Isle; H. B. Darling, of Blue Hill. The meeting was adjourned one week.

The Milford Exchange, at Milford, has passed into the hands of the Butterfield Brothers. They have made some repairs upon the buildings and in the spring will make additional repairs, making it one of the best hotels north of Bangor. With a long experience in the hotel business the Butterfields will make their house a popular one with the public.

Until further notice the mid-day, mixed train on the Bucksport and Bangor railroad, known as the Steamboat train, will leave Bangor Mondays and Thursdays, at 11 o'clock a. m., and will leave Bucksport Wednesdays and Saturdays, on the arrival of the steamer. On Tuesdays and Fridays, this train will leave Bucksport at 10 a. m. The morning and evening mail trains leave and arrive as usual.

The annual meeting of the Portland & Ogdensburg Railroad Company was held in Portland on Tuesday. The election of directors resulted in the unanimous choice of the following: S. J. Anderson, H. N. Jones, W. F. Milliken, J. S. Ricker, Joel Eastman, J. P. Baxter, R. M. Richardson, W. W. Thomas, Jr., Samuel Waterhouse and Francis Fessenden. Subsequently, the directors elected Samuel J. Anderson, President; Charles H. Foye, Clerk; and John W. Dana, Treasurer. The gross earnings for the fiscal year show a gratifying increase and there has been a satisfactory gain in passenger and local freight traffic.

At the annual meeting of the Portland, Bangor and Machias Steamboat Company, held at Portland, Tuesday, the following officers were elected: President, W. F. Milliken; General Manager, Edward Cushing; Treasurer, Geo. L. Day. The Treasurer's report shows the gross earnings for the year to be \$138,021.54. The running expenses, \$117,960, including interest, etc. Repairs on steamers, \$17,640.23. Total liabilities, January 1st, 1882, \$40,212.82. The stockholders voted to sell the property to a new corporation to be called the Portland, Bangor, Mount Desert and Machias Steamboat Company, the terms of sale to allow the old stockholders to subscribe for stock in the new company within thirty days. The new company will have a capital of \$125,000, divided into shares of \$50 each. The old stockholders can receive \$5 per share for their stock if they do not decide to come into the new company. The steamer City of Richmond is now being thoroughly rebuilt at Bath, and will be running on the line in the early summer.

Nuggets.

—The report is afloat in Boston of the discovery of a vein of coal within 35 miles of that city.

—It is rumored that D. O. Mills will become President of the Mutual Union Telegraph Company.

—A party of mining men left Portland yesterday on a visit to the Mascot Mines, at Gorham, N. M.

—Blue Hill Bay still remains open, and vessels can make a landing at the new steamboat wharf without difficulty.

—A special meeting of the stockholders of the Acton Consolidated Silver Mining Company will be held in Portland on Feb. 7th to reorganize the company on an assessable basis.

—A promising discovery has been made on Crow Island in the vicinity of Deer Isle. The ledge is covered with sea weed but as far as uncovered is fully ten feet in width and carries copper and some galena. Geo. A. Holden, of Deer Isle, was the discoverer.

—The Merchants' Union Telegraph Machine Company has been organized under the laws of the State of Maine with a capital of \$500,000, divided into 10,000 shares of a par value of \$50 each. H. S. Shurtleff, of Boston, is President, and Clinton Lorell, of the same city, is Treasurer.

—The MAINE MINING JOURNAL, of Bangor, enters this month upon its third year. It has a large circulation throughout the States, Territories and Provinces where mining interests are held, and in its field is an able and well-managed paper, which deserves success.—[Rockland Free Press.

—It is not generally known that the New York Tile Club lately discovered the genuine and original sea-serpent. For the first time in history this natural wonder has been seen by persons qualified to make exact drawings of its appearance. Three artists of note (namely, Messrs. Gifford, Quartley, and Hopkinson Smith) will publish separate portraits of this famous creature in the Midwinter number of The Century Magazine.

—We have received from J. G. Martin, Stock Broker, of Boston, a pamphlet showing the stock fluctuations of the various securities dealt in at the Boston Brokers' Board and sold at auction during 1881, together with the monthly lowest and highest prices of leading stocks in the New York and San Francisco markets, monthly product of the Lake Superior copper mines, lowest and highest prices of ingot copper, etc., etc. It is a valuable document and serves as an appendix to Mr. Martin's "Seventy-three Years' History of the Boston Stock Market."

—We are in receipt of the "School of Mines Quarterly," a magazine of over eighty pages, published by the Alumni Association and the Chemical and Engineering Societies of the Columbia College School of Mines. It is a valuable publication, as will be seen by a glance at the list of subjects treated; The Metallurgy of Gold and Silver, by Prof. Egleston; The Marquette Iron Region, by Students of the Summer School; Reclamation of Tide-Land, by William Hill; Dry Concentration at Frisco, Utah, by H. V. F. Furman; Aurora, Nevada, Its History, Past and Present—by H. G. Clarke; Professional Notes School of Mines Notes, etc., etc. Published at Forty-ninth Street (corner Fourth Avenue) New York. Price \$2 per year, or fifty cents a single copy.

—The Century Magazine may now be considered fairly started on its way under the new name, and with the February (Midwinter) number, and the adoption of the new cover-design, by Elihu Vedder, the name of Scribner's Monthly will no longer be continued as the sub-title. Since the change of name, there has been a decided increase in the sale of recent numbers of this magazine. The average edition during the last year of Scribner's Monthly was 120,000, while of the first four numbers of The Century it has been more than 132,000. Of December, a new edition of 9,000 was printed, and a new edition of the January issue is now called for. In England, 20,000 copies of November were sold, against an average of 16,230 for the twelve months preceding. The recent growth of St. Nicholas in England has been even greater in proportion; for while 3,000 copies were sufficient there a year ago, 8,000 and 10,000 copies are now needed every month. The publishers are printing 135,000 copies of the Midwinter Century, which will be issued on the 21st instant.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JAN. 13, 1882.

	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
NAME.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Allouez.....	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4
Atlantic L. S.....	18 1/2	18 3/4	18 1/2	18 3/4	19	19 1/4	18 1/2	18 3/4	18 1/2	18 3/4	18 1/2	18 3/4
Aztec.....	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Atlas.....	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Blue Hill Copper.....	7 1/2	7 3/4	7 1/2	7 3/4	7 1/2	7 3/4	7 1/2	7 3/4	7 1/2	7 3/4	7 1/2	7 3/4
Brunswick.....	12	12	12	12	12	12	12	12	12	12	12	12
Calumet & Hecla.....	250	252	248	250	250	252	250	250 1/2	250	251	245	250
Catalpa.....	42 1/2	43	40 1/2	41	40 1/2	41	40 1/2	40 1/2	40 1/2	40 1/2	40 1/2	40 1/2
Central.....	4	4 1/4	4	4 1/4	4	4 1/4	4	4	4	4	4	4 1/4
Copper Falls.....	4	4 1/4	4	4 1/4	4	4 1/4	4	4	4	4	4	4 1/4
Contentment.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Douglass.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Dana.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Duncan Silver.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Empire.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Franklin.....	14 1/2	15	14 1/2	15	14 1/2	15	14 1/2	15	14 1/2	15	14 1/2	15
Harshaw.....	4	4 1/4	4	4 1/4	4	4 1/4	4	4 1/4	4	4 1/4	4	4 1/4
Huron.....	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4
Hanover.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Humboldt.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
International.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
National.....	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4	3 1/4	3 3/4
Osceola.....	35	35 1/2	35	35 1/2	35	35 1/2	35	35 1/2	35	35 1/2	35	35 1/2
Pewabic.....	17	17 1/2	16 1/2	17	16 1/2	17	16 1/2	17	16 1/2	16 1/2	16	16 1/2
Phoenix.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Pontiac.....	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4	1	1 1/4
Quincy.....	55	56	55 1/4	56	55 1/4	56 1/4	55 1/4	56	55 1/4	56	54	55 1/4
Ridge.....	4	4 1/4	4	4 1/4	4	4 1/4	4	4 1/4	4	4 1/4	4	4 1/4
Silver Islet.....	20	22	20	21	20	21	19	20	18	20	19 1/4	20
Star.....	2 1/4	2 3/4	2 1/4	2 3/4	2 1/4	2 3/4	2 1/4	2 3/4	2 1/4	2 3/4	2 1/4	2 3/4
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Arrive Bucksport,	8.45	Fridays at 2 P. M. 8.25

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5.—4.—109.

BANGOR, MAINE, JANUARY 27, 1882.

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Directors—E. M. HERSEY, T. N. EGERY and SAMUEL STERNS, of Bangor; W. D. LEWIS, of Boston and CHAS. DUFF, of Blue Hill.

CHARLES DUFF, Superintendent.

Pine Tree Silver Mining Co.

OFFICE: 24 BROAD STREET, NEW YORK; MINES, SULLIVAN, MAINE

Capital, \$500,000.**Par Value of Shares \$5.00.****Unassessable.**

GEN. JOHN M. CORSE, President.

ROBERT L. CUTTING, Jr., Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—Col. CHAS. H. LEWIS, GEN. JOHN M. CORSE and ROBERT L. CUTTING, Jr., of New York.

Stewart Copper Mining Com'y.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

HON. FREDERICK M. LAUGHTON, President.

C. F. BRAGG, Treasurer.

C. F. BRAGG, Secretary.

Directors—Frederick M. Laughton, F. W. Hill, C. F. Bragg and Thomas White, of Bangor; S. N. Stockwell and G. B. Putnam, of Boston.

DANIEL DUNN, Superintendent.

Sullivan Mining Company.

OFFICE, 17 Tremont Bank Building, BOSTON, MASS.,

MINES, SULLIVAN, ME.

Capital, \$500,000.

100,000 Shares.

Par value, \$5.00.

GEORGE B. BROWN, President.

F. R. NOURSE, Treasurer.

CHARLES L. PERRIN, Secretary.

Directors—Geo. B. Brown, B. S. Grant, C. F. Farrington, J. G. Russell, Dudley R. Child, E. A. Birchard and Frederic R. Nourse.

Shelburne Silver Mining Co.

OFFICE, PORTLAND, ME. MINES, SHELBURNE, N. H.

Capital \$500,000.

100,000 Shares.

Par value, \$5.00.

L. D. M. SWEAT, President.

WM. E. GOULD, Treasurer.

C. W. HOBBS, Secretary.

STEPHEN JENNINGS, Managing Director.

Directors—L. D. M. Sweat, Charles A. Dyer, C. D. B. Fisk, C. H. Chase, C. S. Morrill, Geo. L. Warren, John E. Burnham, Wm. E. Gould, Stephen Jennings.

GEORGE D. HOLT, Superintendent.

Twin-Lead Mining and Smelting Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

125,000 Shares.

Par Value, \$4.00.

EUGENE M. HERSEY, President.

SAMUEL STERNS, Vice President.

JOHN R. MASON, Secretary and Treasurer.

Directors—E. M. Hersey, Samuel Sterns, John S. Jenness, Jacob Stern, F. H. Williams and Thomas N. Egery, of Bangor; Charles Duff, of Blue Hill.

CHARLES DUFF, Superintendent.

NEW ENGLAND MINING DEVELOPMENT

— AND — INVESTMENT CO.

OFFICES:—12 West Market Square, Bangor, and 64 Deconshire St., Boston.

President, F. M. Loughton; Treasurer and Secretary, F. H. Williams; Directors, F. M. Loughton, John S. Jenness, F. H. Williams, J. H. Moyle and Daniel Dunn.

F. H. WILLIAMS & CO., Financial Agents.

YOUNG HECLA

Mining and Smelting COMPANY.

Office at Bangor, Me. Mines at Blue Hill, Me.

Capital, \$500,000.

100,000 Shares. Par Value, \$5.00 each.
Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor, Me.; Vice President, Charles Hamlin, Bangor; Treasurer, C. P. Wiggin, Bangor; Secretary, W. F. Scavey, Bangor.
Directors—John S. Jenness, Charles Hamlin, Wm. D. Swazey, F. M. Loughton, Hanson Gregory, Jr., Horace P. Tobey and Frank H. Williams.
F. H. WILLIAMS & CO., Financial Agents.

BLUE HILL CENTRAL

Mining and Smelting COMPANY.

OFFICE.....BANGOR, ME.
MINES AT.....BLUE HILL, ME.

CAPITAL, \$500,000.

100,000 Shares. Par Value, \$5.00.
Treasury Fund, 30,000 Shares.

Hon. Wm. C. Marshall, of Belfast, President; H. J. Preble, Esq., Vice-President; S. P. Johnson, Secretary and Treasurer; Directors—Hon. Wm. C. Marshall, H. J. Preble, Esq., Samuel R. Prentiss, J. S. Jenness and M. Preble.

Silver Hill Mining Company.

Office, 11 CENTRAL STREET,

Room 4, Boston.

Mines at Garland, Me.

Capital, \$500,000. 200,000 Shares. Par value, \$2.50.
25,000 Shares in Treasury.

President, John F. Hudson, Boston; Treasurer Chas. E. Parent, Boston; Clerk, Geo. A. Mudge Portsmouth, N. H.

Directors—John F. Hudson, Geo. A. Goodyear and Chas. E. Parent, of Boston; Geo. E. Hodgdon, of Portsmouth, N. H.

Blanchard Slate Co., OF MAINE.

Quarry in operation at terminus of Bangor and Piscataquis Railroad.

Quality and natural advantages unsurpassed. Dumpage and drainage unequalled. Railroad transportation adjoining. Stock for sale. Sections leased on favorable terms. Capitalists invited to inspect.
A. C. HAMLIN, President, Bangor.

CHAPPARAL GOLD MINING CO.

Location of Mill and Mines:

KELSEY MINING DISTRICT, EL DORADO COUNTY, CAL.

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Stock full paid and unassessable.

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Office, 61 Broadway, Rooms 7 and 8, N. Y.

APPLETON MINING AND SMELTING CO.,

Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

EXETER SILVER MINING COMPANY,

Exeter, Me.
Capital, \$500,000. Shares \$5 each, unassessable; 40,000 shares in the Treasury.
President, D. N. Estabrooks; Vice President, J. Y. Richardson; Secretary and Treasurer, J. A. Blanchard. Directors—D. N. Estabrooks, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Lane, of Oldtown; — Sargent, of Brewer, and Charles Greenwood, of Corinna.
Office at Oldtown, Me.

FAVORITE MINING COMPANY.

Bluehill, Me. Incorporated July 1, 1881.
Capital, 500,000 Shares, \$5 each; assessable.
President, A. E. Herrick, Bluehill; Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

FANEUIL HALL & SULLIVAN MINING CO.

Incorporated Feb. 1880.
Capital, \$500,000, divided into 100,000 shares, forever unassessable.
Company's office at the Mine, West Sullivan.
President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Fannum, F. W. Morrill and P. S. Tuttle, Boston; A. A. Hayward, Bar Harbor, Me.
A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY

Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. F. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. F. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Rodditt, of Boston; Arthur S. Newman, of Portland; Roderick H. Candage, of Blue Hill.

MC FARLAND SILVER MINING COMPANY

Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F. A. McLAUGHLIN, Supt.

PEABODY SILVER MINING COMPANY,

Property situated on Columbian Mountain, Col. Stock unassessable.
President, J. W. Johnson, Boston; Vice President, E. C. Nichols, Bangor; Secretary, S. P. Johnson, Bangor; Treasurer, E. R. Walker, Boston; Directors, J. W. Johnson, S. C. Hursh, W. C. Bradley, N. W. Gannett, C. T. Plimpton, A. C. Goss, E. C. Nichols.
Treasurer's and Transfer Office, 386 Washington St., Boston.

ROBERT EMMETT SILVER MINING CO.

Egypt Bay, Hancock, Me. Incorp. July, 1879
Capital, \$400,000; Shares, \$10 each.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

SNOW SILVER MINING COMPANY,

Bucksport, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

SUNBURST COPPER AND SILVER MINING CO.

Of Surry, Me. Incorporated, February, 1881.
Capital, \$500,000; Shares \$1.00, unassessable; Treasury Fund, 368,500 Shares.
President, Jas. W. Davis; Treasurer and Secretary, M. Donelan; Directors—Jas. W. Davis, M. Donelan, Roscoe Holmes, Guy Mullan, H. B. Mason, L. W. Hodgkins, P. Mullan.
P. MULLAN, Supt.
Office—Ellsworth, Me.

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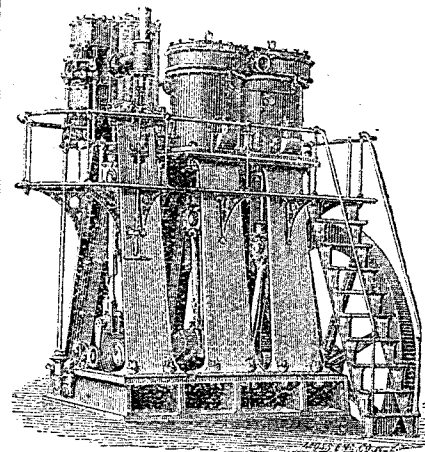
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Burleigh Rock Drill Co.,

FITCHBURG, MASS.

THE Mascot Mining Co

MINES AT GORHAM, N. H.

Office, Portland, Maine.

Capital \$500,000. Shares 100,000.

Stock Forever Unassessable.

DIRECTORS:

R. S. LAWRENCE, President, 23 Crawford House, Boston.

C. W. HOBBS, Secretary and Treasurer, Portland, Maine.

C. C. LANE, 7 Exchange Place, Boston.

CHAS. H. LEWIS, 4 Sears' Building, Boston.

FRANK H. WILLIAMS, 22 Water St., Boston.

CONSULTING GEOLOGIST:

PROF. J. H. HUNTINGTON, 35 Congress St., Boston.

ENGINEERS AND METALLURGISTS
BINNS, KIDNEY & HOLLIDAY, 33 Hawkins Street.

SUPERINTENDENT:

J. M. JOHNSON, Gorham, N. H.

FINANCIAL AGENTS:

F. H. WILLIAMS & CO., 22 Water St.

ORES—Argentiferous Galena and Copper. PRESENT OUTPUT—Six tons daily. VALUE PER TON—Seventy-five dollars. COST OF REDUCTION, including freight, smelting, separation and refining—Twenty-seven dollars per ton.
Forty miners, and ten blacksmiths, carpenters, teamsters, etc., employed. The September development work will ensure an October output of twenty tons daily.

January Statement of the Katahdin Ice Company.

I, John P. Tucker, Treasurer of said corporation, on oath declare, that the amount of assessments actually paid in is \$5,000. No debts are due from the Company except some small demands not presented for payment, amounting to \$100 or \$150. The existing nominal capital is \$10,000. Capital invested in real estate, or in buildings on leased land, and fixtures, and tools or machinery, about \$3,500. Last valuation of real estate \$2,200. Aggregate value of the taxable property of the corporation, as fixed by the assessors, \$5,000.

JOHN P. TUCKER.

STATE OF MAINE.

PENOBSCOT ss. January 26, 1882.
Then personally appeared John P. Tucker, Treasurer of Katahdin Ice Co., and subscribed and made oath to the truth of the above statement. Before me,
FREDERICK M. LAUGHTON,
Justice of the Peace.

January Statement of the Treasurer of the Con. Hampden Silver Mining Co.

I, Charles E. Hill, Treasurer of said corporation, on oath declare: No assessments have been paid, the stock not being assessable. The existing, meaning the nominal capital of the company, is \$1,600,000. The debts due from the company are about \$1000 so far as known. The amount of money actually invested or paid out on the property, including fixtures and machinery, is \$13,867.75 as nearly as can be ascertained. The real estate does not include title to the surface, and mineral rights are not taxable. Last valuation was \$550 for personal property, nothing for real estate.

CHARLES E. HILL.

STATE OF MAINE.

PENOBSCOT ss. January 26th, 1882.
Then personally appeared Chas. E. Hill, Treasurer of the Con. Hampden S. M. Co., and subscribed and made oath to the truth of the above statement. Before me,
FREDERICK M. LAUGHTON,
Justice of the Peace.

January Statement of the Bangor & Bar Harbor Steamboat Corporation.

I, Samuel H. Barbour, Treasurer, hereby on oath declare, that the amount of assessments actually paid in, or the amount actually paid on the stock, the whole having been paid in at the outset, is \$30,000. The capital is \$30,000. No debts are due except such ordinary accounts as have not been presented, and can be paid at any time from cash on hand. Nothing invested in real estate; consequently no valuation of real estate; and as the stock is valued at nearly its par, no additional valuation of any corporate property has been made.

(Signed) SAMUEL H. BARBOUR, Treasurer.
STATE OF MAINE.

PENOBSCOT ss. January 26, 1882.
Then personally appeared Samuel H. Barbour and subscribed and made oath to the following statement. Before me,
FREDERICK M. LAUGHTON,
Justice of the Peace.

January Statement of the Treasurer of Flowers Sleeping Car Company.

I, Wilbur J. Webb, Treasurer of the above named corporation, hereby on oath declare, that the company's stock being unassessable, no assessments have been paid in. The existing capital, if by that is meant the nominal capital, is \$500,000. The property of the corporation is a patent right which it owns, for which it paid \$249,600, which amount it paid from sales of its stock at par. No debts are due from the corporation. Nothing is invested in real estate, nor fixtures, nor machinery; no valuation of such property has therefore been made, nor of any property of the corporation. It has been organized since the time for last valuation.

W. J. WEBB.

STATE OF MAINE.

PENOBSCOT ss. January 26, 1882.
Then personally appeared Wilbur J. Webb, Treasurer, as above, and subscribed and made oath to the truth of the foregoing statement. Before me,
FREDERICK M. LAUGHTON,
Justice of the Peace.

THE

Maine Mining Journal

WILL BE FOUND ON SALE

Each week at

A. K. Loring's, Washington Street, Boston.
George H. Marquis', Portland.
Bangor News Co.'s, Bangor.
Caldwell's, Belfast.
Sargent's, Castine.
James Nichols & Co.'s, Calais.
O. P. Treat's, Calais.
Harry B. Parker's, Blue Hill.

Price Six Cents.

SPECIAL NOTICE

— TO —

Manufacturers,
Merchants,
Miners, and
Capitalists.

THE

Maine Mining Journal

Hitherto devoted mainly to the mining interests of the New England States and Provinces, will in the future introduce other departments covering the RAILROAD, MANUFACTURING, and such other INDUSTRIAL INTERESTS as may assist in the developing and building up of the State of Maine and Provinces.

The natural advantages of this section as a manufacturing center are not excelled by any other district in the country. It has MOST MAGNIFICENT WATER POWERS and easy communication by water and rail with the principal markets of the world.

THE MINING JOURNAL will lend its aid toward the development of these vast and varied resources, and will endeavor to furnish fresh and reliable information relating to the manufacture of COTTON AND WOOLEN GOODS, BOOTS AND SHOES, CANNED GOODS, BRICKS, LUMBER, PAPER, ETC.; the Quarrying of GRANITE, MARBLE, LIMESTONE, and the Mining of GOLD, SILVER, COPPER, TIN, LEAD, IRON, ETC.; and it will be our aim to bring the merits and advantages of these various enterprises to the attention of capitalists.

If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

Agents wanted. For terms, address
THE MAINE MINING JOURNAL,
BANGOR, MAINE.

Favorite Mining Company

SECRETARY'S OFFICE.

BLUE HILL, ME., Jan. 25, 1882.

The Directors have decided to levy an assessment of FIVE CENTS a share on the capital stock of this company, payable by stockholders of record at the close of business, February 10th, 1882.

Notice is hereby given that after that date no stock will be transferred until the assessment thereon is paid.

By order of the board of directors.

H. A. TRIPP, Secretary.

MACHINERY FOR SALE

— BY —

C. J. HALL,

— AT —

Belfast Foundry.

One very nice running, second hand STEAM ENGINE, 14x42 cylinder.
One No. 4 BLAKE PUMP; been used six months.
New Granite Polishing Machinery of all kinds.

C. J. HALL.

Belfast, January 24, 1882.

FOR SALE.

The Valuable Property known as the Bakeman Estate,

IS OFFERED FOR SALE.

Price, \$40,000 cash.

The property consists of over 500 acres of mineralized land, adjoining the celebrated Cape Rosier Mining property, and is acknowledged by the most celebrated experts of this country to contain, not only the continuation, but the richest part, of the Cape Rosier veins.

George H. Blake, No. 93 Exchange Street, Portland, Maine, is the sole agent in charge of this property, to whom all communications may be addressed.

N. H. BRAGG & SONS, Wholesale & Retail Dealers in IRON & STEEL

Blacksmith's Tools, Cumberland Coal.

AGENTS FOR LA BELLE CAST STEEL.

No. 4 Broad Street, Bangor.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Benjamin Franklin Silver Mining Company,
OF FRANKLIN, ME.

HANCOCK, Jan. 16, 1882.

Notice is hereby given that an assessment of two and one-half cents has been levied by the Directors upon each and every share of the capital stock of the Benjamin Franklin Silver Mining Company, and the same is made payable February 1, 1882, to the Treasurer at his office in Hancock, Maine.

The transfer books will be closed January 2, 1882, after which date no stock will be transferred until the assessment upon it has been paid.

Stockholders are requested to send in their certificates to be marked assessment paid.

By order of the Board of Directors.

T. J. HODGKINS, Treasurer.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING,) EDITORS.
W. F. BLANDING,)

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

Subscription price, \$2.50 per year, or \$2.00 when paid in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, JANUARY 27, 1882.

The Portland Smelting and Reduction Company held a meeting of stockholders in Portland on Thursday of last week. Important matters came up for consideration and an earnest discussion followed, but the final settlement was deferred until the annual meeting in February. The improvements at the Works are progressing as rapidly as could be expected during such severe weather.

During the past few days there has been a remarkable decline in Douglass stock. The probable explanation of this depreciation is an impending assessment which it is reported will soon be levied. It would seem as if the previous assessment of one dollar per share would have been enough to place the company in good circumstances, but it is now understood that the new management upon taking charge find the financial condition of the company much less favorable than was alleged at the time of reorganization. Additional funds will be required for the successful working of the mine and hence another assessment is necessary. It is the current report that the assessment will be one of 50 cents per share. The stock is a remarkable purchase at quoted prices, but we can readily imagine that very little is changing hands.

Mention was made last week of a call recently issued for a conference of parties interested in the Bangor and Calais Shore Line project, to be held at Cherryfield, on Friday, January 27th. The Eastport Sentinel is informed that the syndicate of New York capitalists who are promoting the enterprise will probably offer to build the road if the towns along the line will vote the company \$1000 per mile and give them the right of way. The shore towns of Washington county are sadly in need of railroad communication with the outer world and the enterprise is one of vast importance to the general interests of that section; consequently, it is to be hoped the meeting will be largely attended and every reasonable assistance extended. The Sentinel further says that

several Eastport gentlemen intend to attend the conference. If there is to be a Shore Line Railroad, Eastport will not care to be left out in the cold, especially if liberal terms are offered by capitalists.

Maine mining shares have been following the decline in Douglass during the week, and are still on the downward track. As the stocks quoted all represent good properties, under good management, with rapidly improving prospects, investors who do not improve the present opportunity to lay in a supply will miss a golden opportunity. Douglass steadily declined from \$1 to 51c during the week ending on Wednesday last, under small sales, amounting to 1,700 shares; 3,400 shares of Twin Lead were sold, at prices ranging from 31c to 27c; 20,700 Mammoth at 20c to 11c; 42,100 Milton at 28c to 19c; 600 Copperopolis at 20c to 10c; 7,700 Deer Isle at 34c to 25c; the prices last quoted are those at which the last sales were made. Aggregate sales of Maine stocks for the week, 76,200 shares. Sales of Maine shares for the week at the Boston Stock Board were confined to 900 Sullivan at \$2 1-2 to \$1 7-8; 1,900 Douglass at 62 1-2 and 100 Douglass at 50c. Bid and asking prices of these and other stocks for each day of the week will be found tabulated in another column.

THE DEMAND FOR ZINC ORES.

There is a large demand at present for zinc ores from smelting works in New York, Philadelphia, Bergen Point, N. J., and other portions of the Middle States. For many years zinc mining has been prosecuted extensively in New Jersey, Pennsylvania and various portions of the South and West. With the increasing metal demand which is the outgrowth of the wonderful business prosperity throughout the country, zinc has received its proportionate share and as new uses have been discovered for this valuable and indispensable metal the demand has become enormous, leading to a remarkable appreciation in prices. At the same time the supply has been much decreased by the reduction in output of ore from many of the mines which formerly contributed very largely. It is understood the zinc mines of New Jersey and Pennsylvania are becoming exhausted and that it will be necessary in the future to look elsewhere for these ores. The smelters have accordingly turned their attention this way and numerous representatives have visited the mineral fields of Maine and made thorough and exhaustive examinations. These parties will buy zinc ores directly on the dumps and will pay handsome prices for large quantities of these ores. One of the large smelting works, we are informed, has already changed over their smelters especially to treat Maine zinc ores and it is reported if encouragement is offered a large firm will remove the scene of their operations and erect costly and elaborate zinc works at some desirable location in our own State. The Lehigh Zinc and Iron Company, of South Bethlehem, Pa., John Price Wetherell, Manager, are operating a mine on Cutler Head, Washington county, for zinc. Day and night crews are being employed, the shaft has reached a depth of about 40 feet and the prospects are excellent. It is probable that a large number of outside companies will visit our State and mine the zinc deposits which exist in many of the towns along the coast of

Eastern Maine. The appreciation in value and large demand for zinc ores will surely very materially advance our mining interests and be of great assistance to many of the mines now being actively worked. In opening our mines much ore has been encountered carrying large proportions of zinc and this has in the past been considered practically worthless, but now this ore at once comes into prominence and it is found that it has considerable value. There is no reason why many of our mining properties cannot be opened and thoroughly developed, enough being received from the sale of zinc ore to pay all expenses from the grass roots. This is a most encouraging feature for the Maine mining interests.

BUSINESS IN THE STATE OF MAINE.

[Boston Journal of Commerce.]

The present outlook for business in the State of Maine seems more promising than ever before known in the memory of the oldest inhabitants. Many new enterprises are starting all over the State, in fact it is believed that she will show a greater increase in manufacturing than any other New England State this year. In Bath there has been done this season an immense business in ship building; in Rockland a great increase in the lime, granite and cement line; in Waterville an immense new cotton mill has been steadily going up, by the Lockwood Manufacturing Company; in Richmond another large cotton mill; in Winthrop still another; in West Waterville, where there are several edge tool concerns, including the Dunn Edge Tool Company, the Hubbard & Blake Manufacturing Company, and several others which are all extending their business. In Lewiston, the Bates have added largely to their mill, besides great improvements which have been made in the Androscoggin, and are not yet completed, and in nearly all of the other corporations. Another new mill will probably be built at once by the Bates, one by the Franklin Water Power Company, with probably a remodelling of the Lincoln Mill, across the river. In Auburn, the Barker Mill Co. will probably build another mill, while at Augusta, the Sprague Mills, with their unlimited water power, have fallen into the hands of the great and wealthy firm of Wright, Bliss & Fabyan—very probably a great change and increase of production will be carried on there; in fact one cannot travel anywhere in the State but he will see minor small enterprises starting up. The immense water power which has for centuries run to waste is fast being utilized, and as it is sometimes thought that the young people, as soon as they arrive at maturity emigrate from the State, if business goes on long as it has this year, the young of other States will be going to Maine, and instead of their young people going away they will find business enough to enable them to be employed at home.

The Maine Central Railroad, which controls most of the lines east of Portland, has been instrumental in many cases of developing the water powers in this State, of which there are a great abundance. Take the water power at Waterville; the Lockwood Manufacturing Company will have, when their present mill is completed, ninety thousand spindles in operation there, but this does not hardly commence to develop the water power in that vicinity. At Augusta,

all the water power there could run the spindles if they should build a mill with five hundred thousand of them.

The business in this State, unlike some others, does not all seem to turn toward the cities, but thriving towns are springing up and old towns are taking new life, and we predict the time will come when Maine will be a great power in itself, on account of the health and great business interests centered there.

Personals.

SUPT. WHYTE, of the Douglass, visited Canada last week to bring his family to Blue Hill.

CAPT. CHARLES DEERING, the well known steamboat and mining man, has been presented by Boston friends with a gold headed cane costing \$50.

PROF. L. A. LEE, of Bowdoin College, recently delivered a very interesting lecture on the work of the Fish Commission, before the Portland Society of Natural History.

CAPT. DUNN, Supt. of the Stewart, was in Bangor on Saturday last and called on the MINING JOURNAL. He speaks very encouragingly of the developments in progress at the Stewart.

MR. EDWARD STANWOOD, who has been for some years on the editorial staff of the Boston Advertiser, is to be the successor of the late Mr. D. A. Goddard, as managing editor of that paper. Mr. Stanwood is a native of Augusta and a graduate of Bowdoin, class of '61.

REV. ENOCH POND, the venerable President of the Bangor Theological Seminary, died on Saturday at the ripe old age of 90 years and 6 months. He was one of the leading lights in congregational circles and had been associated with the Theological Seminary in this city for about half a century.

JUDGE BEARDSLEE, President of the Rosier Consolidated Mining Company, G. W. SCOFIELD, D. A. LEXEN and B. G. BEAN, all of New York, visited Portland on Thursday of last week and were present at the special meeting of the stockholders of the Portland Smelting and Reduction Company.

MR. WILKIE DARLING, Supt. of the Manhattan and Tapley, was in the city yesterday and favored the JOURNAL office with his presence. He is in high spirits over the bright prospects of the Bagaduce mines and expects a big patronage at his Castine hotel which has been christened the El Dorado.

PROF. F. L. BARTLETT was called to this city on Saturday by the serious illness of his father-in-law, E. P. Baldwin, Esq. The Professor made the MINING JOURNAL a call on Monday and has since returned to Portland, Mr. Baldwin having much improved in health. Prof. Bartlett has been very closely confined in Portland during the past year superintending the building and equipping of the Portland Smelting and Reduction Works, and this brief visit is the first made by him to Bangor for a long time. The Professor has rendered very valuable assistance to the mining interests of Maine in manifold ways and his earnest efforts have been appreciated by our mining men. The benefits which will accrue from the establishment, through his labors,

of substantial smelting and reduction works within the borders of our own State must be apparent to every one.

Dips, Spurs and Angles.

—Entertaining spirits unawares—partaking of Roman punch.

—A Cincinnati journalist, in a musical criticism, speaks of the intense satisfaction he experienced in listening to the tenderlines of Grisi.

—There are thirteen sardine factories on the coast of Maine, and anything which can be packed into a box four inches long is called a sardine.—[Detroit Free Press.

—“Have some milk this morning?” asked the milkman of Toozier, who stood at the back door. “No, not this milk, some udder milk,” said the little one. And the milkman man walked a chalk line away from the house.

—Greenbacks are replacing coin on the Comstock. This is caused by the facts that the only persons on the Comstock who have any money are Federal office-holders and ex-millionaires who are receiving remittances from home.—[San Francisco Exchange.

—The extent of the manufacture of “pure olive oil” from cotton seed is indicated by expert statistics from New Orleans. Of 6,000,000 gallons shipped thence during 1879 eighty-eight per cent., was sent to the Mediterranean and French ports, and one-half of this amount to Italy.

—“HALLOA! halloa! halloa! Is that Maine?” “Yes. Who are you?” “We are the Star. We understand that certain speculators from Massachusetts are about to flood your State with certificates of Telephone stock; look out for them. The certificates may make good wall paper, but they come high.”—[Boston Star.

—The Gold Hill News gives the title of Oscar Wilde's lecture as the Truly True, the Bully Good and the Bang-up Beautiful. Oscar intends to visit the Comstock, having heard that that region is full of mining superintendents of æsthetic tastes and high up in cult. The Comstock cult, as is well known, contains some beautiful poetic phrases and expressions, among which may be mentioned the delicate reference usually made by a Comstocker to the ancestry of his enemy.—[San Francisco Report.

The Mascot Mines.

A VISIT TO THESE VALUABLE SILVER-LEAD MINES IN THE WHITE MOUNTAINS.

The Mascot Mines are located in the heart of the White Mountains, in the town of Gorham, Coos County, New Hampshire. A member of the MINING JOURNAL staff recently made a visit to these mines and as much interest has been manifested by the mining and general public in the developments now in progress here the writer will describe at some length what was seen on the occasion of his trip.

The town of Gorham nestles among the Mountains and is a charming village, distant about ninety miles from Portland over the Grand Trunk Railway. Gorham is supplied with two commodious and well kept hostleries, the Gorham House and the Alpine House, and during the summer season enjoys a high reputation as a resort for tourists and pleasure seekers. The village also boasts of a very creditable weekly paper, “The Mountaineer,” which is published by Mr. V. V. Twitchell, a gentleman whose acquaintance it was our pleasure to make. The view of the mountains is truly grand at this season and the towering peaks with their crowns of snow show to splendid advantage through the clear atmosphere. Winter is really a far more favorable time than summer to behold mountain scenery in all its grandeur.

To the northward, and separated from Gorham village by the waters of the winding Androscoggin, the rugged side of Mount Hayes presents itself to view. The mountain rises in several bold terraces and finally towers to a height of several thousand feet. On one of these terraces, and quite a distance up the side of Mt. Hayes, the plant of the Mascot Mining Company is located.

The place is reached from the base of the mountain by an elaborately constructed road built by the company and pronounced one of the best mountain roads in New Hampshire.

The Mascot Mining Company own three properties, the Galena King, Galena Queen and Mascot which adjoin one another on the great mineral lode penetrating Mount Hayes. Mr. J. M. Johnson, the Superintendent of the Mascot Mines, has during the past two years devoted much time to prospecting this expansive belt and informs us that he has traced the vein about seven miles without finding a break. The vein crops out boldly throughout this entire distance and there are many places where the metalliferous ledge rises ten feet above the surrounding surface. On the 24th of May last, work was commenced on the Mascot claim and a tunnel was driven about 110 ft. into the hill. Numerous stringers carrying rich ore were met and the vein is probably not far distant, but it was deemed best to discontinue work during the winter and concentrate efforts upon the Galena King. The Galena Queen lies between the Galena King and Mascot and has been prospected by the sinking of pits and the continuity of the lode demonstrated.

Preliminary work was commenced on the Galena King on the 5th day of August and has been prosecuted vigorously up to the present time, and a very large amount of work has been accomplished. A bold bluff rises to a height of several hundred feet, and in the face of the cliff near the top an open cut was carried along the vein about 70 feet and the ore removed from the bottom of the cut to the surface, a distance of 40 feet. The cut was then timbered and roofed overhead to give good protection for operations during the winter, and was then extended as a tunnel on the vein into the heart of the mountain, and at the time of this visit had penetrated a distance of about 200 feet from the outside of the first set of timbers. At the entrance of the tunnel a large number of blocks of pure silver-lead ore, recently taken from the mine, make a very handsome display and give some idea of what will be seen in the interior workings. These specimens are of large size and one of them viewed by us weighed eleven hundred pounds, while one block recently taken out weighed several tons. The showing as one advances in the tunnel is very brilliant and the imagination of the most sceptical would be excited. The tunnel has followed the foot wall and the ore body has been sometimes 3 feet in width and sometimes less, but always holding good and carrying a large percentage of ore. We are informed that fully half the material taken out of the tunnel is saved, and this is separated into two classes. No. 1 is cobbled already for the furnaces and the remainder, including the sweepings which run fully 40 per cent. ore, is saved for concentrating. In this tunnel about 20 feet from the entrance a winze has been sunk 30 feet on the vein, in good ore. About 23 feet from the entrance on the hanging wall side of the vein a large body of oxides exhibits itself and it is believed that a large body of ore exists on this side of the vein and has been forced aside by a large “horse” whose presence is plainly visible. About 100 feet further on in the tunnel a crosscut is being run to the hanging wall with the view of cutting the ore body just alluded to. This crosscut is now in 14 feet, stringers of ore have been cut and it is believed to be in the immediate vicinity of this ore. As soon as the ore is reached a winze will be commenced and drifts will be driven either way on the ore body. The header of the tunnel is making a magnificent showing and the floor of the tunnel is almost solid metal.

Tunnel No. 2 has been driven into the face of the bluff at a vertical depth of about 100 feet below No. 1 Tunnel. After running in about 100 feet numerous stringers of ore were met and the tunnel has been steadily extended until it is now in about 167 feet from the entrance. The walls of the vein are perfect and the ore encountered is of a grade richer in silver than in the upper level. The header of the tunnel is in quartzite. In about 150 feet an upraise has been commenced to connect with the winze from No. 1 Tunnel. This upraise has been carried to a height of 30 feet and a considerable quantity of ore is shown. The ore is disseminated and not concentrated in one massive body as in the upper tunnel but is of a finer grade and the indications, in the opinion of the Superintendent, are very flattering. The present developments are not being made with the view of taking out all the ore possible at once, but the intention of the management is to open the mine thoroughly, with expedition, and place it in a condition to turn out daily a handsome output of ore. A large amount of ground has already been opened and when it is desired a very large quantity of ore can be removed with great ease. The location of the mine is admirable for working and work can be pushed with much more rapidity and with far less expense than where mines have to be opened with shafts. An important feature is that water does not trouble in the least and the workings are entirely free from this nuisance. No expensive machinery is accordingly necessary to cope with this element, frequently so troublesome in mines. The mine from its peculiar situation

has to be operated in a different manner from the great majority of the mines of New England. Instead of hoisting ore the question here has been how to lower it down to the base of the bluff where the buildings of the Mascot Mining Company are located. A substantial double tramway was finally constructed, 350 feet in length and extending from the platform at No. 1 to the ore house immediately at the foot of the almost perpendicular cliff. The ore is taken down in a bucket by its own weight and an empty bucket is brought up by the weight of the descending ore bucket. This tramway or slide is a complete success and ore can be lowered from the mine with great rapidity. One bucket will hold about 1100 pounds of ore and 20 buckets can be readily lowered in an hour. As an experiment the bucket has been lowered and raised in the remarkable time of 26 seconds. Spacious platforms have been erected at the entrance of each tunnel and the ore is sorted on these before being sent down in the buckets. By the side of the tramway a flight of steps leads from the ore-house to the crest of the bluff and Tunnels Nos. 1 and 2 are reached by a climb up this stairway.

The buildings of the Mascot Mining Company embrace an ore house 30 ft. by 20 ft. containing also an office and blacksmith shop, a stable 30 ft. by 24 ft. and a substantial hotel 60 ft. by 30 ft. in size with an ell 30 ft. by 60 ft., all two and a half stories in height. The hotel is a first-class building in every respect and contains a dining room, kitchen, bath room, office and twenty-seven sleeping rooms. The hotel is known as the Mascot House and offers very excellent accommodation for the miners. A beautiful sheet of water some twenty acres in extent lies within a few feet of the hotel and has been christened Mascot Lake. The scenery in this vicinity must be delightful in summer and a more beautiful spot can hardly be imagined. There is much to be seen here of interest, and the present year will doubtless witness a large influx of visitors. The prospects of the Mascot Mining Company are indeed bright. With the three properties, Galena King, Galena Queen and Mascot, the company have a large extent of territory on the great mineral lode and are fully equipped for mining work upon an extensive scale. The company have shipped about 100 tons of ore to the New England Smelting Works and also have large quantities on the dump, part of which will be shipped to the smelters and part saved for concentration. The Galena King is now well opened, a very large amount of argentiferous galena is in sight and the future developments promise great results. The company are fortunate in having the services as Superintendent of Mr. J. M. Johnson, a man of practical experience on the Constock and a thorough miner. An interesting feature in regard to the lead from the Mascot Mines is that it is readily susceptible of oxidation, thus making it applicable for the manufacturing of white lead and giving it a considerable value above the malleable variety. Future operations at the Mascot Mines will be watched with much interest.

The New England Smelting Works.

The New England Smelting Works were recently visited by a representative of the MINING JOURNAL and a description of what was seen will doubtless prove interesting reading to the very large number engaged in mining developments in the New England States and Provinces.

The New England Smelting Works are located in East Boston, fronting on the harbor, and are in the immediate vicinity of railroad lines. The location is an admirable one and ores may be brought either by vessels or railroads and deposited almost at the works. The value of the property has very materially appreciated since the purchase by the company and as the low land on the water front will gradually be filled in with debris from the Works the intrinsic value of the property will be still further enhanced.

The plant embraces a large building containing two large reverberatory furnaces with a capacity for 20 tons each per day, another large building containing a large reverberatory furnace for copper refining with a capacity of producing 16,000 pounds of ingot copper daily, a refinery building 70 ft. by 40 ft. in size for the refining of silver and lead and a building of smaller proportions which is fitted up finely for an office. The silver and lead refinery has a large cupelling furnace with a capacity of 40 tons of bullion per day, and three kettles for desilverizing the bullion capable of a charge of 15 tons. A ten horse power engine has been placed in the refinery to run the crusher and blower which will be put in immediately.

Everything about the Works is constructed in a thoroughly substantial manner. The furnaces are elaborately built and have already done good work in the treatment of ores. The silver and lead refinery is not quite completed but it is expected this department will be in full operation in a short time. About 35 tons of silver-lead bullion from Mascot ore makes a very prominent display in one of the smelting buildings. The fur-

naces are now running on Deer Isle ore, a cargo of 190 tons having recently been received from the mine. The Works have also received quantities of ore for reduction from Western mines. Shipments of galena concentrates are expected regularly from the Silver Lake Mine in New Hampshire and another shipment of fine ore is expected daily from the Mascot Mine.

The Works are at present equipped for the treatment of about every kind of ore and are prepared for the transaction of a large business. They have exceptional facilities from their central location and ease of access by water or railroad, and with the ever increasing activity in mining operations along the North Atlantic slope it would seem as if a prosperous future must be in store for them.

Mr. Thomas Binns, a gentleman of intelligence and great familiarity with the working of ores, is in charge of the New England Smelting Works as Superintendent. Mr. T. S. Reese, a veteran in the business, is in charge of the smelting operations and has brought to the position an experience gained during a long life passed among smelting works in England and Mexico and in Baltimore, Phoenixville, Cleveland and other places in this country.

LODES, LEADS AND VEINS.

ACTON.—At a meeting of the Directors of the Acton Consolidated Silver Mining Company, held in Portland on the 2nd inst., it was voted to call a special Stockholders' meeting for Feb. 7, to consider the proposition of reorganizing upon an assessable basis. The present company is organized with a capital stock of 240,000 shares, par value \$5 each, 66,000 of which remain in the treasury. The property consists of 2000 linear ft. on the Acton lode, with ore and shaft house, engines, pumps and all necessary implements for working the mine. The debts of the company will not exceed \$800. The proposition is to divide the treasury stock, pro rata, among the stockholders, and then to assess the whole stock, not exceeding six cents per share for the first year, which will enable the company to resume work and, if the prospects are sufficiently encouraging, to continue development by levying other assessments. It is to be hoped the stockholders will see the wisdom of the proposed plan, the adoption of which can alone make their shares valuable and at the same time furnish the means for a resumption of work upon a mining property of great merit, already too long idle.

Sullivan.

MILTON.—Mining developments continue at the Milton with the same vigor which has characterized previous workings at the mine. As it has been some time since a detailed description has been given of the underground developments we will attempt to give something of an idea of the work done during the past few months. It will be remembered that from No. 1 shaft a crosscut was extended over 400 feet south under the water and from No. 2 a crosscut was run north a considerable distance. Work was finally commenced on a vein which was cut by the south crosscut from No. 1 shaft, and a drift has been extended westward on the vein about 165 feet. On this drift about 40 feet from crosscut a winze was started and is now down over 50 feet, and according to the latest advices from the mine is showing good ore and steadily improving. At the same time a crosscut was run south 105 feet from No. 2 shaft and a vein supposed to be running parallel to the one previously mentioned was cut. A drift was run westerly on the vein and a winze commenced which is now over 60 feet in depth. The vein appears to be a strong one, about seven feet in width, carrying a large amount of mineral but at present quite low grade. Work is being steadily driven in drifts and winzes.

Blue Hill.

STEWART.—Making good progress in both shafts, which have reached a depth of about 110 feet. No. 2 is improving rapidly in appearance, while No. 3 has about three feet of five percent. ore.

FAVORITE.—As per notice in another column, the Favorite Mining Company have levied an assessment of five cents per share. Transfer books close Feb. 10.

Bagaduce.

HERCULES.—Mr. H. H. Emerson, Supt. of the Hercules Mine, called at our office last week on his return from Portland. The Company, having reorganized upon an assessable basis, will probably levy an assessment immediately. The mine is making a magnificent showing and steam machinery will be put in at once. The Ellsworth American says that a piece of almost solid zinc ore, from the Hercules, weighing nearly 100 lbs. is on exhibition at the store of E. F. Robinson, in that city.

MANHATTAN.—The drift on the vein in the Manhattan makes as magnificent a showing of ore as ever. A winze has been

commenced on the drift about 40 feet from the crosscut and a contract has been made to sink it 75 feet.

TAPLEY.—The perpendicular shaft is being sunk on the Tapley and good progress is being made.

British Provinces.

The Moncton correspondent of the Maple Leaf says the copper mine difficulties between Messrs. E. F. Couch and Wilder et al have been at length settled by the payment of a sum in cash to Mr. Wilder.

HALL-ANDERSON.—The Superintendent of the Hall & Anderson Mine telegraphs under date of January 16th, as follows: "Sent in bar of gold \$2,765; clean up next week and will remit amount." On January 17th he telegraphed, "Encountered rich strike on Serpent Lode, 100 foot level going east."

The Kingston Chronicle and News of Jan. 20 says: To-day the first car load of iron ore from the Levant Mines came in over the K. & P. R., the siding to the mine from the main road being completed, and in good running order. The ore will now be shipped from this mine continuously. Fully 30,000 tons will be taken out during the coming summer.

BIG THIRTY.—Dr. Goodfellow, of Sussex, N. B., offers for sale his "Big Thirty" mine, located at Mineral Vale, in the Parish of Alma, Albert county, New Brunswick. The vein is said to be thirty feet wide, and assays at a depth of twelve feet give 11 per cent. copper, 9.9 ozs. silver and 5 dwts. gold per ton. The property is distant about eight miles from rail facilities and twelve miles from deep water. Two good streams of water are in close proximity to the mine, there is an abundance of wood near by and plenty of cheap labor. A sample of the ore, taken from a depth of six feet, may be seen at this office.

RENFREW.—Dr. Rae of the Renfrew Gold fields, brought to town on Tuesday, a large bar of gold from that district. This yield places the Company in a position to pay a handsome dividend. Too much credit cannot be given to the Doctor for his energy and perseverance in working these claims. These mines were down exceedingly low and considered worthless until Dr. Rae took hold, since which time they have panned out very well. This is a point in proof that all our mines require to become successful is capital and experience to make them yield large returns. Stock in this company could not, to-day, be easily obtained. If the Beaver dam property was under such efficient management as that of Renfrew, good results might follow.—[Halifax New Era.

GOLD MINING AT ISAAC'S HARBOR.—The President, Treasurer and Directors of the Gallihar Gold Mining and Milling Company arrived from Boston on Friday evening, and leave this morning for Isaac's Harbor to inspect the company's property there, preparatory to starting the new ten-stamp mill recently made for them by Messrs. W. S. Symonds & Co., of this city. Since the purchase of the Isaac's Harbor Mine in July last it has been thoroughly equipped with new and substantial mill buildings, shaft and boiler houses, etc., etc., together with mining machinery of the most approved pattern, including steam drills, air compressor, pumps and steam hoisting engines, etc. To one entering the harbor the company's buildings, situated some 200 feet above the water level, make quite an imposing appearance, while the intermittent jets of escaping steam give indications of the power and machinery at work below. Situated near the mill building is a very pretty gothic structure, with broad piazza around it, surmounted on the front by a balcony, the view from which is particularly beautiful, extending far out on the water and surrounding coast. This is the superintendent's office, with directors' parlor and sleeping rooms adjoining, with separate apartments for the superintendent and family, recently furnished entire by Messrs. Gordon & Keith, of this city. Eighty-six men are at present employed, under the superintendence of Capt. J. W. Douglass, a gentleman of extended practical mining experience in California and Nevada. Under his direction a system of development has been inaugurated that will, he says, place the Gallihar Mine among the most productive mines in the world, and will make glad the hearts of the capitalists who have come among us seeking profitable investments.—[Halifax Chronicle, Jan. 16.

IRON MINING IN ONTARIO.—Messrs. S. J. Ritchie, of Akron, Ohio, and J. B. & G. W. McMullen, of Picton, proprietors of the Prince Edward Railway, have bought three-fourths of the extensive mining property owned by Mr. William Coe, of Madoc. It consists of some 15,000 acres in several townships in Hastings, and contains some of the largest and richest magnetic iron mines in the world. In several of them the veins are from 1,500 to 2,000 feet long and over 100 feet wide. The ores are reported by Professor Chapman, of Toronto University, to average from 66 to 68 per cent. of metallic iron, without titanium or other injurious elements, and there are said to be many

millions of tons in sight along the level of the surrounding country. Mr. Coe has spent twelve or thirteen years picking up the property, which is regarded as the nucleus of an immense mining industry. Mr. Ritchie is an American capitalist, intimately connected with many of the largest steel rail establishments in the United States, and he has already turned their attention to the new district. The Prince Edward Railway will be extended to three or four of the mines this year, and as much ore as can possibly be carried in a year is said to be already engaged. The parties have also bought all the available dock frontage on Weller's Bay, over 100 acres in extent, and will erect large elevated docks there, which will be ready as soon as the road can be extended. Mr. Ritchie has also made a proposal on behalf of Pittsburg and Cleveland capitalists to erect a steel rail mill at Weller's Bay, which can be supplied with ore from the mines, as they are exactly suited for making Bessemer steel, the supply of ore being smelted. This seems by far the most important movement ever undertaken in this part of the country, and if a Bessemer steel rail mill is put up, involving, as it will, the expenditure of not less than a million and a half of dollars, Prince Edward County will be revolutionized, in an industrial way. Three of the mines will be at once opened out and two or three thousand tons per week taken from each pending the completion of the road, which will be built from Trenton to the Townships of Suden and Wallestown, a distance of about eighty miles.—[Kingston Chronicle and News.

The Tangier Gold Mines.

[Halifax New Era.]

The first discovery of gold in Nova Scotia, in 1861, was at Tangier, and upon what was afterwards known, and still is known, as the Old South Lead property, and now owned and worked by the Satemo Gold Quartz Company, of New York. This property gets its name from the famous Big South and Little South lodes, which are fabulously rich in free gold, and which, during the first excitement, were opened upon, in claims of 20x50 feet, from end to end of the property, and mined, or more properly speaking, gouged and pillaged to water level, no working being deeper than 125 feet. But the records invariably show that whereas at the surface, these lodes yielded barely one oz. per ton, at the 100 foot level they yielded 5 ozs. per ton.

Of course, the claims being so near together, the lower lands drained the upper, and quarrels, bitter and seemingly endless, soon arose among the many owners, as to sharing or dividing the expense of keeping out the water, so that the pernicious system of parcelling out such small claims finally resulted in the complete abandonment of the district, for many years. Mr. A. McG. Barton, about five years ago, purchased the eastern extension of the South Lead property. He had tried to clear the South Lead of water and old debris, with the intention of putting them in workmanlike condition and keeping them so. But the accumulated water in the many old workings proved too much for his limited capital, and being unable to erect pumping machinery, abandoned it, and went to the eastward 2000 feet, upon ground wholly unprospected, and in company with Mr. John Murphy, sunk shafts, drove tunnels and crosscuts, with a perseverance and persistence to be found only in thoroughbred miners, until their efforts were finally rewarded by the discovery of "the Nugget Lead," now owned and worked by the Satemo Company, and out of which they have taken, and now have piled upon the dumps, some 150 tons of quartz, ready for the new mill just completed, and started. The record of this lead is 2 ozs. per ton.

The Satemo own the Burton and South Lead properties, comprising an unbroken area of 1500 feet wide by 3000 feet long. The deepest shaft on the Nugget is but 120 feet, but owing to the rapid rise of ground going west, no more sinking need be done for over a year to come.

But by far the most important feature of the Satemo Co.'s property at present, is the recently opened Kent Lode, on the old south portion of the property. It is a source of surprise and chagrin to many old miners of the province who, years ago, mined within a few feet of it, and in fact, knew of its presence from out-croppings, but from surface appearances many considered it worthless. The Satemo have sunk a costean shaft fifty feet, and drifted fifty feet on the lode, and, with this small amount of work, have developed a strong quartz lode, of an average thickness of three feet, with perfect walls, and the quartz literally filled with gold. It is impossible to estimate the yield of the Kent, as no mill test has as yet been made; several assays have been made, which though quite uniform, are nevertheless in result so extremely high, that the Company decline publishing them, fearing that the enormous average which they represent may not be a fair one, preferring the result of an actual mill run of about 100 tons.

From the present appearance of this lode, however, one

thing seems assured, viz.: That the vigorous and workmanlike development of the "Kent," together with the other well known gold yielding lodes on this property, under the present able management of Messrs. Clark and Bothwell of New York, is destined to mark a new era in Gold Mining in Nova Scotia. English and American capital is fast pouring into the Province, and with the energy which invariably accompanies the same, and the modern appliances which they command, Nova Scotia, with her now hidden treasure, must soon occupy a high place among the gold producing countries of the world.

Croppings.

[Compiled, Condensed and Condensed from our Exchanges.]

The Montezuma, N. Y., marshes are likely to become as valuable as a coal mine. The marl is being shipped to France by the thousands of tons, being used there as a deodorizer and entering into the manufacture of artificial fertilizers.

The Massachusetts and New Mexico Consolidated Mining Company have voted to issue \$250,000 of six per cent. bonds, payable in seven years, with interest semi-annually, and also to increase the capital stock from 300,000 to 500,000 shares.

The Longfellow Mines, at Clifton, Arizona, have turned out 2,734,604 pounds of copper during the past twelve months. They are situated on the dividing line between New Mexico and Arizona, and are owned and operated by M. Lesinsky & Co., who have recently built a 20-inch gauge road to their main works, at a cost of \$80,000.

GEORGIA.—A 9 lb. nugget of gold was found recently, near Dahlonega; Messrs. Launsden found a two hundred and forty-two pennyweight gold nugget in their gold mine in Nacoochee valley, White county, and there is said to be quite an excitement in this valley, owing to the opening of a new and very rich deposit of gold, probably the richest now being worked in the State. For weeks nuggets of gold have been taken out by the miners at an average value of \$30 per day for each man employed. The deposit is twenty yards in width and rich in nuggets of a large size. The Dahlonega Signal was also shown a bar of gold weighing thirty-six pennyweights which was produced from one ton of ore from the Fish Trap mine. A correspondent of a New York paper, writing from Lumpkin county, says: "I found that good results have followed every well directed effort, and wonder why these gold fields have been so neglected. I cannot say there are any big bonanzas here, as no work has been done on a scale to warrant large returns; the fields are as rich, if not richer, than those of California, and the ore, though of low grade, is boundless in extent, and can be mined and milled at from twenty to forty cents per ton."

The locality now being reopened and worked by the American Copper Mining Company, at Somerville, N. J., has a historic interest in copper mining from the fact that work was done on the same range of hills as early as 1701, by a Mr. Boudinot, of Philadelphia. It is also known that in 1754 two lumps of virgin copper were found here whose weight aggregated 1,900 pounds; a fact which is the more important in view of the large amount of native copper which exists in finely divided particles in almost all of the ore taken from the American Copper Mining Company's workings. The account given in the fourth American edition of Chaptal's Chemistry, published in 1837, of the Schuylers Copper Mine, of New Jersey, shows, however, that even these workings were not the original. This mine was discovered about the year 1719, and prior to 1731 Arent Schuyler had shipped to England, to the Bristol Copper and Brass Company, 6,933 casks, aggregating about 1,336 tons of raw ore. The mine was worked for four years with great advantage and profit. The work was still being carried on in 1765, when a workman who had been discharged set fire to the engine house, which was destroyed and the works were discontinued by the company. The repute of the property, had, however, become such that several gentlemen in England who knew well the superior quality of the ore applied successfully to the Crown for permission to establish works in America for smelting and refining copper ore, and an offer was made to Mr. Schuyler to purchase the whole estate containing the mine for the sum of £100,000 sterling. This offer was refused, but Mr. Schuyler agreed to join them in rebuilding the engine, and starting up the mine. This arrangement was finally made impossible by the troubles between the mother country and the colonies; but the records of what was done show the repute which this locality had gained at that early date.

—Lafayette Kimball, at Duck Cove, Bucksport, near the Orland line, has recently opened an ore vein on his farm, a sample of which has been assayed by W. W. Fiske, State Assayer, of Ellsworth, with the following result: Gold, per ton of 2000 lbs., \$11.13; Silver, \$7.24; Copper, 2 1-2 per cent.

EASTERN INDUSTRIES.

Robbinston is to have a sardine factory.

Wolff & Reesing talk of enlarging their Sardine Factory at Milbridge.

Operations will be resumed in a few days at the Forest City Sugar Refinery.

S. A. Austin, of West Peru, has got out 40 cords of poplar for the toothpick factory at Dixfield.

The shipments from the Richmond Shoe Factory for the week ending Jan. 19, were 182 cases and 8 pairs; or 10,928 pairs.

The foreign exports from the port of Portland during last week footed up \$311,512.71, including 484,591 feet of lumber.

The Woolen Mill at Warren is booming, some of the help making extra time. The mill is now two months behind orders.

The Auburn Foundry Company have doubled the capacity of their works the past season and are having all the work they can do at present.

Hubbard & Blake's rebuilt scythe shop, at Waterville, is almost ready for business. The wheel is running, and in a few days forging will be resumed.

The new planer for the Bath Iron Works, imported from England, has arrived. It is a very large and fine one, and will be set up in the new machine shop.

The Portland Company have just delivered another locomotive to the Canada Pacific Railroad and two more will be ready for delivering the last of the month.

The pant manufacturing business recently started in Searsport by Messrs. F. M. Hieborn and N. G. Clifford, is steadily increasing and promises to be a success.

The Worumbe Manfg. Co., at Lisbon Falls, are doing a fine business in woollen goods of various descriptions, among which are yachting piques, diagonals and beavers.

A large four story building to be used as a shoe manufactory is nearing completion in South Paris and a large force of operatives will be employed when the factory starts up.

The family of the late Justice Clifford have contracted with the Hallowell Granite Company for a sarcophagus to be erected in Evergreen Cemetery, Deering, in memory of their father.

The steam mill at Monticello started up on the 5th, and is running day and night. There are three shingle machines in operation, and sawing about seventy thousand shingles per day.

Hodgdon Brothers, of Boothbay, are building a clipper schooner of 124 tons, and one of 60 tons, for the fishing business. Both are for sale and will be ready to launch next spring.

Gen. S. D. Leavitt, of Easport, has been elected president of the American Fastening Company, recently organized at Boston with a capital stock of \$400,000, under the general law of Maine.

The Camden Flouring Mill Company have purchased during the year 1881, for the home trade, 37,307 bushels of corn and about 3,500 bushels of wheat. This is exclusive of their custom business.

Hagar Brothers of Richmond, engage in farming on an extensive scale, owning a square mile of land, 640 acres. They keep between 500 and 600 sheep, and make quite a specialty of wool growing.

The Boylston Street bridge in Boston is to be constructed of granite from the quarry at Otter Creek, Mt. Desert. The red granite of this quarry is said to be the best monumental granite found in Maine.

The Machias Union says that F. H. Todd & Sons, of Milltown, gave each of their employees, some 200 or more, a \$5 bill. The amount was enclosed in an envelope in each case, and reached the recipients the night before Christmas.

The Sanford Mills Company have a large force of men at work on the foundation of their new mill, which they hope to get running by the 1st of April. The main building is to be 210 feet long, 50 feet wide and 3 stories high, and a dye house 100x40 feet.

The Jewell Granite Company are working a crew of men at their promising quarry in the town of Lincoln, and it is expected a carload of granite will soon arrive in this city over the E. & N. A. R. R. from this quarry. This granite is susceptible of a very fine polish.

Work is progressing slowly upon the pulp mill at Fairfield.

The delay in the work is caused by the difficulty in getting the machinery made. Mr. Tower goes to Boston next week to superintend the construction of certain machinery. He hopes to be able to start the mill about the first of May.

At the annual meeting of the Bangor and Piscataquis Slate Company, held in this city recently, it was voted to sell the property of the corporation, real and personal, at public auction, at the quarry at Brownville, on the 16th day of February next, at 1 p. m.

There are now about 90 stonecutters employed upon the works at Vinalhaven. They are engaged mostly upon the Jordan, Marsh & Co. new building, Boston, and upon the Hunnewell building, New York. The latter is nearly completed. It is to be ten stories in height, and its elevation on Broadway is about 150 feet.

Work at the shovel handle factory in Dexter commenced last week, the proprietors having about five hundred dozen blocks on hand. Since they started the blocks have come in faster than they could be made into handles, and the prospect is that the factory will now run till the close of the season.—[Dexter Gazette.

The granite firm of Smith & Ingram, South Thomaston, are turning out at present an unusually fine class of work. We were shown the designs of two monuments which are among the best we have ever seen cut in our sheds, one of which stands 18 ft. This firm ranks with the first for its good work.—[Cor. Rockland Opinion.

There is now an abundance of snow in the woods and the lumbermen in Northern Maine are very busy with their operations. Unless the cold weather is more prolonged than usual the crop of logs will be considerably curtailed as the absence of snow was a serious drawback to successful lumbering during the early winter months.

The Woolen Manufacturing Company, at Porter, have just purchased \$7000 worth of wool to make up into cloth. They are now beginning to have orders come in for their goods, instead of turning them all over to commission houses for sale, and expect soon to have orders for all their goods and save the commission money to themselves.

W. C. Farnell, of Wilton, has recently put in a new set of 44-inch cards and an entire new set of machinery for making ladies' dress flannels of all wool. He has now two whole sets. He has also added a 30-horse power boiler and a chimney 60 feet high and a Gessner rotary press, and is making a fine grade of goods of all wool flannels, which meet with a ready sale.

The new saw mill of Wm. T. Pearson & Co. being erected at West Great Works in the place of the one destroyed by fire last spring, is well along and it is expected that it will be finished in time for next spring's sawing. The rotary saw, which was manufactured by the Hinckley & Egery Iron Co. of this city, has been put in place, and will be used in sawing timber for the completion of the mill.

The Lewiston Journal says that Mr. Burrell, agent of the Farnsworth Mill, at Lisbon Plains, has just returned from Boston, where he has purchased an additional set of cards for the mill. Hitherto the mill has run nights to keep even on the carding, but the new set will partly obviate this difficulty. The company have orders ahead for a large quantity of goods and must increase their capacity for manufacturing.

The manufacturing interests of Waterville are in a very prosperous condition. The Lockwood Company employ at present between three hundred and four hundred operatives and the new mill when running will give employment to fully six hundred more. The machinery is being put in the new mill as rapidly as possible and it is hoped to start up one half of the mill by April and to have the mill running to its full capacity by the middle of the summer.

SOMETHING NEW.—Mr. Fred Atwood, of Winterport, the agricultural implement man, is about to introduce something new for a scythe. It is made of fine crucible steel, rubber coated, which gives a fine finish, and tempered in oil, giving the scythe a finer cutting razor edge, while the rubber coating will prevent rusting. The scythe will not be polished, thereby avoiding the danger of starting the temper. His hand-made axe—oil tempered—is something of a high order and commands a large sale where known.

It is said by a man acquainted with the business, that in addition to the ice staked out on the Penobscot by regular companies, fields aggregating 180,000 tons in contents have been staked out from this city to Emery's Point by adventurers in the business, who would cut under favorable circumstances. The recent cold wave will, however, have a dampening effect on the ardor of these people. The regular companies here will cut

about as much as originally intended, no matter what the weather, but a continued cold spell would probably put an end to stacking preparations.—[Commercial.

Messrs. Goss, Sawyer and Packard, of Bath, have nine vessels, large and small, under way in their yards. They have over 600 names on their pay roll. T. R. Hagan has ready for launching, a fine schooner of about 80 tons, named Geo. W. Cushing, owned by Cushing and McKenney, and others of Portland. She is to be employed in the fishing business under command of Capt. Geo. Cushing, late of sch. Young Sultan. Master Hagan has a fine fishing schooner of 140 tons under way to be off in March, for Carney & Prince and others of Portland, and one of 150 tons to be off in May, for Lewis & Whitten, and others of Portland.

Hallowell is now a bee-hive of industry. In addition to her regular manufactures, scores of men are employed in the ice business. The Granite Ice Co. are laying the foundations for two permanent houses on Granite Wharf, and have some 50 men at work. The houses will each be 200 feet long, 35 feet wide, and 30 feet post s, and their combined capacity will be about 12,000 tons. This company has a field of 15 acres all scraped, and will begin housing the middle of next week. Right across the river from this wharf, on a little island, Elias Milliken of Augusta is to stack some 10,000 to 15,000 tons. The Knickerbocker folks are increasing the capacity of their houses on Steam Mill Point.

Orland derives quite an annual income from her fisheries. Powers & Emerson, John Buck and E. B. Gilley own collectively eight vessels which annually sail for the Grand Banks in the spring and usually return with good fares. The last season's catch of codfish footed up \$30,200. Large quantities of smelts are taken in nets near the Orland shore, opposite Verona, in the winter. A. R. Buck, a trader at Orland village, made one shipment by steamer last winter of 7800 lbs. The largest catch at one pulling of a net yielded one ton in weight. The markets are Boston and New York and the price received averages about 7 cents per lb. The salmon weirs are arranged on a large scale and at considerable cost. The shores from Orland extending to Fort Point are well occupied by weirs extending into the river but many are taken at different points along the shores extending nearly up to Bangor.

The gentlemen who recently purchased the old Frye mill property, in this city, as announced, met at the office of Messrs. Frye, Cotton & White, Thursday afternoon, and organized a corporation, with a capital stock of \$100,000, under the statute. They voted to call it the "Home Manufacturing Company," and elected the following officers for the ensuing year: President, David Cowan; Treasurer, T. E. Eustis; Directors, David Cowan, T. E. Eustis, Albert Young, Charles E. Gay and S. E. May. The business of this corporation will be the manufacture of woollens, repellents, yarns, etc. They also rent power to a large number of small shops, and others of a greater or less size will probably be built at an early day. Men are at work now, building a dye house in connection with their woolen mill. The mill will be remodeled and equipped with new machinery. Unless the Maine Central Railroad builds its connecting track across this property, as has been projected, and thus makes it impracticable, Mr. Gay will build a large shoe factory on the property next spring.—[Lewiston Journal.

Mr. C. J. Hall, of the Belfast Foundry and the Otter Creek (Mount Desert) Red Granite Quarry, is making arrangements to largely increase his already flourishing business. The embarrassments connected with the Foundry property, arising from litigation between the present and former owners, have recently been amicably settled, leaving it in proper shape for development. Mr. Hall is now establishing a granite yard on the wharf of the Foundry Company and putting in polishing machinery, where he intends to finish up red granite for all kinds of ornamental work, and do monumental and cemetery work in all its branches, from grey, white and red granites. Mr. Hall has recently shipped some of his red granite to O. A. Crockett, of this city, and is finishing more for other parties here. The buildings and yard at Belfast are spacious, and so situated that cars or vessels can be loaded or discharged with the power directly from the engine in the Foundry building. By having the polishing works so contiguous to the Machine Shop and Foundry, it will greatly facilitate that branch of the work, as well as give excellent opportunity for improving and producing polishing machinery of the highest class, which Mr. Hall intends to make a specialty.

LEWISTON.—The following historical facts relating to the growth of this prosperous manufacturing city were furnished by Ex-Governor Garecelon to a correspondent of the St. Croix Courier: In 1826 the population of Androscoggin county was about 14,000, and in the year 1830 a small carding mill was erected at the base of what is now called the Lewiston Falls.

This was followed two years later by a loom for manufacturing satinette cloth, which the proprietors exchanged for wool to the scattering inhabitants of the county. In 1839, what is now called the city of Lewiston was a barren field, with two stores, about a half dozen houses and no roads excepting one or two rough pathways cut through the woodlands or along the bank of the river to outlying districts. As late as the year 1846 where is now constructed the great canals and mills of gigantic proportions were meadow lands and cow-pastures with here and there a small vegetable garden. About the year 1847 a small cotton mill, the first on the river, with about 500 spindles, was built on the ground now occupied by the Lincoln Mill and near the natural waterfall. Six or seven years later the first railway communication was opened up. In the year 1850, the population of Lewiston was about 3,000, since which date, say 30 years ago, it has increased to nearly 30,000, including the city of Auburn. The last cotton mill built, the Androscoggin, incorporated just ten years ago, is the largest of the six mills in operation for the manufacturing of cotton goods alone, in Lewiston. The aggregate number of spindles in these six corporations is 291,776; number of hands employed, male and female, 6000; monthly pay roll, including disbursements, \$184,000. The Barker mill in Auburn is not included in these aggregates given.

BRITISH PROVINCES.

Moncton, N. B., is to have a knitting factory. The machinery is purchased and operations will be commenced in a few weeks.

The St. Croix Courier says the Slate Quarries at St. George are said to be very valuable, and calls for the formation of a company to develop them.

A company with a large capital is in process of organization at Truro, N. S., for the purpose of erecting suitable buildings and carrying on the manufacture of pianos and organs in that thriving town.

The Halifax Herald says: The Intercolonial Railway officials are making enquiries for a vessel to carry 20,000 bushels of wheat from Halifax to London, and the lowest rate that will be accepted for ocean freight. The shipment, it is understood, depends upon the rate of ocean freight.

In 1879, there were seven cotton mills in operation in Canada. To this number four new mills have been added and are in operation, while there are nine more in course of erection. In 1878 the total importation of raw cotton was 7,243,413 lbs. In the year ending 30th June last 16,018,721 lbs. were imported. The general trade of the Dominion appears to be in a flourishing condition. The total imports, according to a statement just published, have increased from \$93,618,787, in 1878, to \$105,330,540, in 1881, or an increase of 13 per cent. Exports have increased from \$79,323,667, in 1878, to \$93,290,823, in 1881, an increase in the aggregate trade of the Dominion of 18 per cent. The imports from Great Britain have increased under the present tariff 16 4-10 per cent. while those from the United States have decreased 24 4-5 per cent.—[St. James Gazette.

Railroad, Steamboat and Hotel Notes.

The Maine Central are to build a new station at Skowhegan.

Messrs. Cole & Nutter take possession of the Lynde Hotel, Rockland, on March 1st.

The steamer May Field is now running regularly between Bucksport and Rockland, touching at way landings.

H. W. Chase, of the Franklin House, in this city, has leased the Wesleyan Grove House, at Northport, and will run it the coming season.

The steamer City of Portland, of the International Line, is laid up at Portland for repairs, and the New Brunswick is running in her place.

The Portland & Rochester Company are receiving 350 tons of steel rails and fifty new freight cars. The cars are from the Portland Company.

It is reported that the expense of refitting the steamer Richmond will reach the sum of \$90,000. But she'll be a perfect daisy; the best in the country of her size.—[Courier-Gazette.

The first assessment, of \$20 per share, upon the capital stock of the Portland, Bangor, Mount Desert and Machias Steamboat Company, is payable at the office of the Treasurer, at Portland, Feb. 10.

E. F. Couch, the well known mining man, has purchased the Phoenix Hotel, at Moncton, N. B., lately under the management of E. H. White. It will be run by Mr. Job Lears, late of the Intercolonial Railway.

The proposed excursion of railroad men to inspect the Ban-

gor & Katahdin Iron Works Railroad did not come off this week on account of the severe weather. The party will probably make the trip next week.

The Cambridge, which is hauled up at Boston, is having very extensive repairs on her boiler and engine. Very fortunately there will be no repairs on her hull needed. She will not come on the route again for five or six weeks.

The Grand Central Hotel at Bar Harbor is to be enlarged sufficiently to accommodate some fifty more guests, another season. It is also to be lighted by gas and furnished with electric bells, which are entirely new features at the Harbor.

The Preble House of Portland is to be lighted with electricity. M. S. Gibson, the popular landlord, is a gentleman of great enterprise and under his management the Preble has gained a high reputation among the leading hotels of New England.

The new International Line steamer, building at Bath, is progressing finely. The boilers are in position and the heavy machinery is now being put in and the boat covered over to enable the finish to be put on. The company have hired workmen and will do the brass and tin work on the boat themselves.

The Limited Live Stock Express Company was organized in Portland, Jan. 24th, with a capital of \$200,000. A. J. Lee, of Boston, is President and Wm. H. Nichols, of Boston, Treasurer. Capital stock paid in, \$500. Par value of shares \$100. The purposes of the organization are the manufacturing, selling, leasing and using railroad cars for transporting live stock.

The new steamer Penobscot is under the Atlantic Co.'s shears at East Boston to receive her engines and other machinery. The engines are to be fitted in the shops, which will save very much trouble after being put aboard. She will come on the route at the opening of navigation and run one season without coppering, after which she will be nicely coppered and probably run as a winter boat. She will cost fully \$150,000.—[Rockland Courier-Gazette.

The North Anson Advocate says that Mr. Wyatt of Quebec, President Ayer, Mr. R. B. Dunn and other officials recently came up over the Somerset Railroad, by special. Mr. Wyatt is a large owner and manager of both the Kennebec and Levis and the Quebec Central Railroads, and was on a tour of observation over the railroads of Maine, with a view to effect a junction of the conjoined Quebec Central and Kennebec & Levis railroads, with the railroads of Maine, on the frontier.

The two surveying parties engaged on the Maine Central Extension from Dexter to Presque Isle met during the closing days of last week, in the vicinity of Patten, and disbanded. The survey has occupied several months; the work has been very thorough and the route is found to be very feasible. It will open up some of the finest farming land in Aroostook county. The route, as surveyed is, about forty miles west of Houlton, four west of Patten and is about 175 miles in length.

Mr. C. M. Holden's new hotel, now building at Southwest Harbor, is 80x34 feet, three story, situated on the corner of High Street and Garfield Avenue, and it will be completed and ready for business about June 15th. The hotel being near the steamboat wharf, telegraph, and post-offices and containing all the latest improvements for the comfort and convenience of the guests, and above all a popular landlord and landlady, will no doubt be well patronized. Mr. M. P. Rich, for many years employed in building in Massachusetts in the vicinity of Boston, is in charge of the carpenter work, which is a guarantee of efficiency.—[Mount Desert Herald.

The surveyed route of the proposed railroad from Bucksport to Ellsworth runs near to one of the most valuable water powers in New England, which is in East Orland at the outlet of Toddy Pond. From the outlet to Great Pond the distance is about one mile and the fall of water between the two points is 150 feet. The banks of the stream are high and solid and everything is favorable for manufacturing on a large scale. Only a small part of the power is now occupied and such safe and valuable privileges could not long remain unimproved with good railroad facilities. A flourishing manufacturing village at that point would do much to aid the business of the road in future time. Toddy Pond is 9 miles long and contains a water area of about 6 square miles. It is well fed by springs and streams and receives the water drainage from a large extent of country. The railroad route would run within 8 miles of Blue Hill village and this flourishing mining town would soon provide for a branch road which together with the towns lying southerly and westerly would become valuable feeders in the line of patronage and profits.

Mr. A. L. Blackman, Manager of the Newfoundland Railway, has given notice on behalf of himself and others that ap-

plication will be made to the Dominion Parliament, at its next session, for an Act to incorporate a Company under the name of The Great American and European Short Line Railway Company, with power: 1st.—To construct, equip and operate lines of Railway from a point at or near Cape North, in the Island of Cape Breton to the Strait of Canso, and from the Strait of Canso through the Provinces of Nova Scotia, New Brunswick, Quebec and Ontario, to a point or points in the United States Territory; 2nd.—To construct, equip and operate Steamers, and Steam Ferry communication between any of the Provinces of the Dominion, and between the Dominion and Newfoundland, and between the Dominion and Europe, and between Newfoundland and Europe, and also said ferry connection on the Strait of Canso; 3rd.—The construction, purchasing, leasing or hiring of steamboats, ferry boats, railways, conveyances, and lines of telegraph in connection with the matter and powers before mentioned, and the working and operating of the same. The scheme is a feasible one, the idea of the incorporators being to establish a shorter route to Europe for passengers and mails. A number of American capitalists are interested in the project and the Earl of Dunraven is one of the prime movers. A large proportion of the stock of the company will be taken up in England.

Nuggets.

—Rockland will have the Electric Light about the middle of February.

—The Rockland Courier-Gazette says fifteen Passamaquoddy braves went to the happy hunting grounds last year.

—The residents of West Bath had a dance the other night for the purpose of raising sufficient money to buy a hearse. The Bath Independent heads the item "The Dance of Death."

—Mr. A. H. Kidney, and not Mr. Thomas Biens as inadvertently stated last week, is in the South superintending a mill for the Grayson Mining Company. Mr. Biens remains in Boston and is in charge of the Boston Ore Milling Works and New England Smelting Works.

—Some new mineral discoveries have been made quite recently in the Snow district in the town of Bucksport. Mr. W. G. Hinks has discovered a vein carrying copper sulphurets but has not yet had time to prospect it much. Mr. Coombs has found on his property, about a mile distant from the Snow Mine, a specimen of native copper. We have seen samples from these prospects.

—At the regular monthly meeting of the White Mountain Club held in the Portland Natural History Rooms on Wednesday evening of last week a paper descriptive of the Mascot Mines was read by Mr. W. H. Pennell. A magnificent specimen of argentiferous galena weighing over 100 pounds was presented to the White Mountain Club at this meeting by the Mascot Mining Company and it was placed in the cabinet of the club. A framed photograph of the mines was also presented to the club.

—The Boston Ore Milling and Metallurgical Works, at 33 Hawkins street, Boston, are doing a large business in the sampling and testing of ores. The Works not only receive ores from all portions of the Eastern States and Provinces for treatment but receive numerous lots of ores from the West. Prof. Holliday has charge of the chemical work and the results attained are exceptionally accurate and reliable. Mill runs are made at the Works of five hundred pounds and upwards of ore, and thus information of far more practical value than simple assays are obtained. The Boston Ore Milling and Metallurgical Works is an institution of much value to our mining men and we are pleased to see that it is receiving such a large share of patronage.

—Dr. Torrington of Peaks Island, Portland Harbor, who is seventy years old and by no means athletic, was hurriedly summoned the other afternoon to the house of a neighbor, Mrs. S. Hadlock. When he reached Mrs. Hadlock's he found that he was expected to kill with a gun instead of with his medicine chest. An eagle of sweeping wing and fierce scream was circling about the Hadlock poultry yard, and the good woman was protecting her Thanksgiving turkeys by means of brickbats hurled with Amazonian courage. The Doctor was amazed, for he never before had heard of such boldness on the part of the bald headed things, however big their beaks. He was about to take aim when the bird swooped down at him. At that moment a six-year old child, a grandson of Mrs. Hadlock, toddled out of the house, and the eagle pounced upon the little fellow. Mrs. Hadlock struck frantically at the eagle with a large towel roller, and releasing the boy, it flew to a neighboring oak. Dr. Torrington put a double charge in the Hadlock shot-gun and fired. The eagle flew upward and away over the

sea, and its flight showed that it was wounded. Dr. Torrington's shoulder was dislocated by the recoil of his gun. Before night some fishermen found the eagle's body a half-mile off shore.

—Lippincott's Magazine for February opens with an illustrated article, the first of two, on the Gulf Coast. The writer, Mr. Barton D. Jones, was sent by the Secretary of the Interior to examine the government lands in that region, and the information he gives is novel and interesting. Dr. Felix L. Oswald has another article on Animal Pets, enlivened with anecdotes and charmingly illustrated. "The Capture of Derue," by Charles Burr Todd, revives an almost forgotten episode in American history—the expedition against Tripoli under General William Eaton, whose letters and diaries, as cited in the article, bear testimony to the adventurous spirit in which the enterprise was conceived and the difficulties amid which it was carried on. "An Afternoon in Rome," and a frontier sketch, "For Life," by Helen Campbell, are highly readable papers. As usual a large amount of space is devoted to fiction. "Grant's Luck," by Mary Etta Smith, is a powerfully written story, showing, moreover, an intimate knowledge of life in Panama. "A Vicar in Ebony," by M. A. Collins, and "Bummer and Lazarus," by Margaret Hosmer, are short and lively, while the second installment of "Stephen Guthrie" awakens a strong interest and contains many admirable touches. There are poems by Rose Terry Cook, Carlotta Perry, and Charles L. Hildreth, and many interesting papers in the editorial departments.

—The rich and varied stores of mineral fuel in our country form the basis of an industry which is now developing into colossal proportions. From the anthracites in the East to the lignites of the far West, every variety of coal is now within the reach of markets, and the mining, transporting, and manufacturing interests dependent upon that vast mineral wealth are so varied, and are becoming so intricate, that those affected must follow closely the course of events, not alone in their own districts, but must keep well informed on what is going on in other parts of the country. An enterprising journal, offering weekly information, of a general character, and accurate reports from the various sections, has become a necessity, and we are pleased to learn that the Scientific Publishing Company, of New York, have begun the publication of a new journal, entitled COAL, to be devoted exclusively to the interests of the coal trade. The field is a large one; but with the support brought by a long experience in conducting the Engineering and Mining Journal, itself for many years an able exponent of the same interests, COAL promises to become a valuable aid to the trade. The first number, now before us, is handsomely printed, bright and attractive, and the well known enterprise and journalistic standing of its publishers give assurance that the high standard of excellence of its first issue will be maintained in the future.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, JAN. 23, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Ancon.	3 1/2	3 3/4	3 1/2	3 3/4	3 1/2	3 3/4	3 1/2	3 3/4	3 1/2	3 3/4	3 1/2	3 3/4
Atlantic S. S.	15	19	17 1/2	19	15	18 1/2	15	19	14	15 1/2	...	15 1/2
Aztec.	1/2	...	...	...	1/2	...	...	...	...	...	...	...
Atlas.	...	...	...	...	...	...	...	...	...	...	...	...
Blue Hill Copper.	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4
Brunswick.	12	14	13 1/2	14	15	14	15	14	15	14	15	14
Calumet & Hecla.	243	245	245	246	244	245	244	245	241	245	241	242
Catalpa.	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1/2	3/4
Central.	...	...	...	...	...	...	...	...	...	...	...	...
Copper Falls.	4	4 1/2	...	...	4	4 1/2	...	...	3 1/2	4	...	...
Contentment.	...	...	...	...	...	...	...	...	...	...	...	...
Douglass.	...	1 1/2	...	...	...	...	...	...	...	...	...	...
Dana.	...	...	...	...	...	...	...	...	...	...	...	...
Duncan Silver.	...	1/2	...	...	...	...	...	...	...	...	...	...
Empire.	...	...	...	...	...	...	...	...	...	...	...	...
Franklin.	14	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	12 1/2	13	13	14
Harshaw.	4 1/2	5	4	4 1/2	5	4 1/2	3	3 1/2	3	3 1/2	3 1/2	3 1/2
Huron.	3 1/2	4	...	...	3 1/2	3 1/2	...	...	3 1/2	4	3	3 1/2
Hanover.	...	...	...	...	...	...	...	...	...	...	...	...
Humboldt.	...	...	...	...	...	...	...	...	...	...	...	...
International.	...	...	...	...	...	...	...	...	...	...	...	...
National.	3	3 1/2	3	3 1/2	3	3 1/2	2 1/2	3	2 1/2	3	2 1/2	3
Oscoda.	34	35	34 1/2	35	34	35	33	35	32	34	33	35
Pewabic.	16 1/2	16 1/2	16	16 1/2	15 1/2	16	15	15 1/2	14 1/2	15 1/2	14 1/2	14 1/2
Phenix.	...	...	...	...	...	...	...	...	...	...	...	...
Pontiac.	...	...	...	...	...	...	...	...	...	...	...	...
Quincy.	53	55	53 1/2	54	52	54	51	51 1/2	50	52 1/2	52	54
Ridge.	3 1/2	4 1/2	3 1/2	4 1/2	4	...	...	...	3 1/2	...	...	...
Silver Islet.	19	20	19	20	17 1/2	18	17	17 1/2	17	17 1/2	15	20
Star.	...	...	...	...	...	...	...	...	...	...	...	...
Sullivan.	2 1/2	2 1/2	2 1/2	2 1/2	2	2 1/2	2	2 1/2	1 1/2	1 1/2	1 1/2	2

TICKETS TO EUROPE,

BY ALL THE POPULAR LINES,

FOR SALE BY Wm. E. Brown, 21 Main Street, Bangor.

AND DRAFTS IN ALL CURRENCIES, FOREIGN EXPRESS, &c.

Copper, Zinc and Lead Ores WANTED.

Highest market prices paid. First-class, responsible buyers. Advances made on cargoes. Send analyses, amount per month, samples (25 or 50 lbs.) Address, B. BAINES, JR., Broker, 39 Exchange Street, Portland, Me.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Stewart Copper Mining Co.

— OF —

BLUE HILL, MAINE.

P. O. Box 515.

BANGOR, Jan. 2, 1882.

Notice is hereby given that an assessment of ten cents has been levied by the Directors upon each share of the capital stock of the Stewart Copper Mining Company, and the same is made payable January 16, 1882, to the Treasurer at his office in Bangor, Me.

The transfer books will be closed Jan. 2, 1882, after which date no stock will be transferred until the assessment upon it has been paid.

By order of the Board of Directors,

C. F. BRAGG, Treasurer.

P. S.—Stockholders are requested to send in their certificates to be marked assessment paid.

ASSESSMENT NOTICE.

OFFICE OF THE

North Castine Mining and Smelting Co.

BANGOR, Jan. 9, 1882.

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of two cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, January 15th, 1882.

Any stock upon which the assessment shall remain unpaid on the 15th day of February, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

By order of the Board of Directors,

S. P. JOHNSON, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE

TWIN LEAD MINING and SMELTING CO.

OF MAINE.

4 MAIN STREET, Y
BANGOR, Dec. 26, 1881.

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, January 14th, 1882.

Any stock upon which the assessment shall remain unpaid on the 15th day of February, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates, that payment may be endorsed thereon.

By order of the Board of Directors,

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Arrive Bangor.	6.42 Thursdays at 11 6.05
Leave Bangor.	7.35 A.M., Tuesdays & 7.15
Arrive Bucksport.	8.45 Fridays at 2 P.M. 8.25

Train also leaves Bucksport on Tuesdays and Fridays at 10 A.M. On Wednesdays and Saturdays on arrival of Boston steamer.

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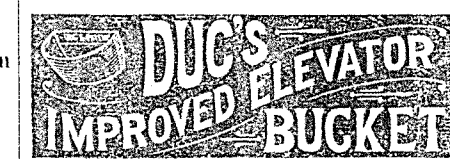
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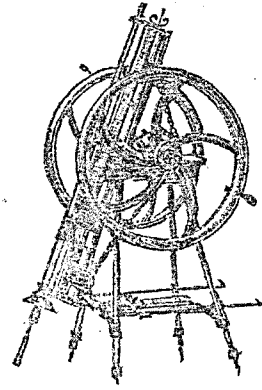
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Directors—John F. Hudson, Geo. A. Goodyear and Chas. E. Parent, of Boston; Geo. E. Hodgdon, of Portsmouth, N. H.

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CAPITAL, \$2,000,000.—PAR VALUE, \$10.

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APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund \$6,000 shares.
President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shephard, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

EXETER SILVER MINING COMPANY,
Exeter, Me.
Capital, \$500,000. Shares \$5 each, unassessable; 40,000 shares in the Treasury.
President, D. N. Estabrooks; Vice President, J. Y. Richardson; Secretary and Treasurer, J. A. Blanchard. Directors—D. N. Estabrooks, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Laue, of Oldtown; ——— Sargent, of Brewer, and Charles Greenwood, of Corinna.
Office at Oldtown, Me.

FAVORITE MINING COMPANY.
Bluehill, Me. Incorporated July 1, 1881.
Capital, 500,000 Shares, \$5 each; assessable.
President, A. E. Herrick, Bluehill; Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

FANEUIL HALL & SULLIVAN MINING CO.
Incorporated Feb., 1880.
Capital, \$500,000, divided into 100,000 shares, forever unassessable.
Company's office at the Mine, West Sullivan.
President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Farnum, F. W. Morrill and F. S. Tuttle, Boston; A. A. Hayward, Bar Harbor, Me.
A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.
President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Rodolf, of Boston; Arthur S. Newman, of Portland; Roderick H. Candage, of Blue Hill.

MCFARLAND SILVER MINING COMPANY
Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 shares.
President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

PEABODY SILVER MINING COMPANY.
Property situated on Columbian Mountain, Col.
Stock unassessable.
President, J. W. Johnson, Boston; Vice President, E. C. Nichols, Bangor; Secretary, S. P. Johnson, Bangor; Treasurer, E. R. Walker, Boston; Directors, J. W. Johnson, S. C. Hursh, W. C. Bradley, N. W. Gannett, C. T. Plimpton, A. C. Goss, E. C. Nichols.
Treasurer's and Transfer Office, 355 Washington St., Boston.

ROBERT EMMETT SILVER MINING CO.
Egypt Bay, Hancock, Me. Incorp. July, 1879.
Capital, \$400,000; Shares, \$10 each.
President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Gay Mullan, A. A. Bartlett.
P. MULLAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.
President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

SUNBURST COPPER AND SILVER MINING CO.
Of Surry, Me. Incorporated, February, 1881.
Capital, \$500,000; Shares \$1.00, unassessable; Treasury Fund, 365,500 Shares.
President, Jas. W. Davis; Treasurer and Secretary, M. Donelan; Directors—Jas. W. Davis, M. Donelan, Roscoe Holmes, Guy Mullan, H. B. Mason, L. W. Hodgkins, P. Mullan.
P. MULLAN, Supt.

Office—Ellsworth, Me.

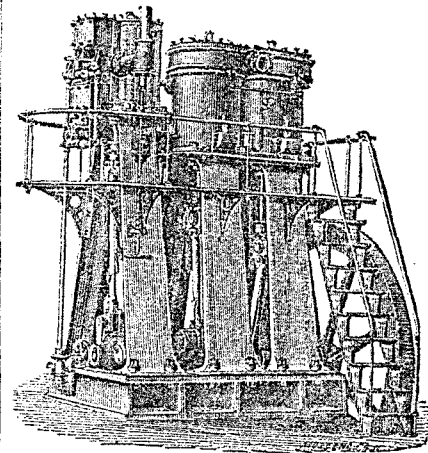
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C. W. HOBBS, Secretary and Treasurer, Portland, Maine.

C. C. LANE, 7 Exchange Place, Boston.
CHAS. H. LEWIS, 4 Sears' Building, Boston.

FRANK H. WILLIAMS, 22 Water St., Boston.

CONSULTING GEOLOGIST:

PROF. J. H. HUNTINGTON, 35 Congress St., Boston.

ENGINEERS AND METALLURGISTS
BINNS, KIDNEY & HOLLIDAY, 33 Hawkins Street.

SUPERINTENDENT:

J. M. JOHNSON, Gorham, N. H.

FINANCIAL AGENTS:

F. H. WILLIAMS & CO., 22 Water St.

ORES—Argentiferous Galena and Copper. PRESENT OUTPUT—Six tons daily. VALUE PER TON—Seventy-five dollars. COST OF REDUCTION, including freight, smelting, separation and refining—Twenty-seven dollars per ton.

Forty miners, and ten blacksmiths, carpenters, teamsters, etc., employed. The September development work will ensure an October output of twenty tons daily.

SPECIAL NOTICE.**Harrington Silver Mining Co.**

The Stockholders in the above company are hereby requested to send to the Secretary their trustee receipts and receive stock for the same, in order that arrangements may be made for resuming active work at the mine.

Per order of the President,
EUGENE H. DAKIN.
Secretary.

Bangor, February 3d, 1882.

January Statement of the Treasurer
—OF THE—

Bangor and Blue Hill Falls Mining Co.

I, E. C. Smart, Treasurer of the Bangor and Blue Hill Falls Mining Company, agreeably to the requirements of sec. 8, chap. 45, Revised Statutes of Maine, on oath declare, that the capital consists of twenty acres of mineral rights and five acres in fee simple, which is not of much value except for mining purposes. Last valuation being \$150 00; mineral rights not taxable. Organized unassessable, and about 15,000 shares remain in the treasury. The amount due from the company is about \$450. The amount of cash expended for explorations, shaft house, whim, blacksmith shop and tools is \$5,419.72 as near as can be seen at present.

E. C. SMART.

STATE OF MAINE.

PENOBSCOT ss. January 30, 1882.
Then personally appeared E. C. Smart, Treasurer of the Bangor and Blue Hill Falls Mining Company, and subscribed and made oath to the truth of the above statement. Before me,
W. J. WEBB,
Justice of the Peace.

January Statement of the Treasurer
—OF THE—

Harrington Silver Mining Company, of Bangor, Maine.

I, Eugene H. Dakin, Treasurer of the above company, hereby on oath declare as follows:

Capital stock.....	\$500,000 00
Assessments paid.....	000-000-00
Expended on property about.....	\$2,000 00
Taxable value of property.....	Not taxed
Liabilities about.....	\$50 00
Cash in Treasury.....	\$176 39
Stock in Treasury at par value about.....	\$100,000 00

EUGENE H. DAKIN, Treasurer.

STATE OF MAINE.

PENOBSCOT ss. February 2, 1882.
Then personally appeared Eugene H. Dakin, Treasurer, as above, and subscribed and made oath to the truth of the foregoing statement. Before me,
CHARLES P. WIGGIN,
Justice of the Peace.

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Assayer and Chemist for the State of Maine.

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12 West Market Square, Bangor, Me.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

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THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, FEBRUARY 3, 1882.

Reports from the mining regions in this State are indicative of a successful future. Our correspondent at Blue Hill reports all the mines in fine condition; the papers bring us the most cheering news. We have much faith in the mines of Maine so long as they are well managed.—[Rockland Courier-Gazette.]

The New York Mining Record is publishing a serial story, which has run through the last sixteen numbers of that journal with a prospect of continuing as far or farther into the future. The tale is of thrilling interest and the characters are well drawn; but the plot is as yet somewhat vague, and we must confess to considerable curiosity, not to say anxiety, to learn how the author succeeds in extricating his hero from the labyrinth of perils in which he has become involved.

Very little is doing in the mining share market, and Maine stocks have generally declined still further since our last report. There is very little demand and Milton and Deer Isle have nearly monopolized the business of the week. Reported sales at the Boston Mining Exchange for the week ending on Wednesday last aggregate 28,440 shares, as follows: 15,500 Milton at 21 to 18c; 8,300 Deer Isle at 28 to 25c; 1,200 Twin Lead at 16 to 23c, closing at 20c; 1,700 Mammoth at 13 to 10c; 500 Edgemoggin at 13c; 440 Sullivan at 1 7-8 and \$2; 400 Douglass at 50c. At the Stock Exchange sales of Maine shares for the week were confined to 300 Blue Hill, 500 Douglass and 709 Sullivan.

James H. Allen, of Calais, in this State, whose sad death is mentioned in another column, was associated with his brother in the ownership of a valuable group of mines on the West Fork of Wood River, in close proximity to the mines being operated by Major W. A. Rooks. The brothers intended, with the money which they expected to realize from these and other mines, to come home next summer to visit

their mother and immediate relatives, fix them comfortably, and then return to make a stake for themselves. Deceased was about 37 years of age, and is described by the Wood River papers as nearly six feet high, broad in proportion, of almost herculean strength, and a magnificent specimen of the sturdy yeomanry which left the comforts of Eastern homes to carve out futures for themselves in the mountain fastnesses of the Far West.

THE SHORE LINE RAILWAY.

The railroad questions which are now absorbing the attention of the people of Hancock and Washington counties are matters of vast importance to the future interests of that section, and, while requiring prompt and vigorous action, should not be too hastily considered. The situation must be viewed and discussed in all its aspects in order to ensure to all the greatest possible benefits from the measures adopted.

At a meeting held in Cherryfield, on Friday last, the towns of Calais, Pembroke, Charlotte, Edmunds, Dennysville, Marion, East Machias, Machias, Addison, Columbia, Columbia Falls, Harrington, Milbridge, Stenben and Cherryfield were represented, as was also the city of Ellsworth by L. A. Emery, Esq. Col. John N. Greene, of New York, representing the company who propose to build the road, addressed the meeting and submitted substantially the following proposition: To build and equip a first class road from Bangor to Calais, including the bridge over the St. Croix, in the two following seasons, providing the towns along the proposed line contribute as a subsidy the sum of \$1,500 per mile—this sum to be deposited in the hands of a trustee or bank, and to be paid pro rata as the road is completed; the company to provide the right of way itself. The estimated cost of the road is about 18,000 per mile, and it is proposed to follow, as nearly as possible, the old Buckland survey.

As evidenced by the remarks of the gentlemen present, public sentiment seems to be overwhelmingly in favor of accepting Col. Greene's proposition. A committee of one from each town was appointed to make an estimate of the amount that each town would be called on to provide, and the question will be submitted to a vote on or before Feb. 22. The sum (1,500 per mile) is to be assessed on a basis of 2 2-3 per cent. upon the State valuation of 1880. As an illustration, Pembroke, with a valuation of \$409,143, would be assessed about \$10,900; all the other towns would be assessed on the same basis. There seems little doubt but that the action taken by the several towns will be favorable, and, if so, fully half the road will be built the coming season and the remainder completed in 1883. Eastport would also build to connect with the Shore Line at Pembroke.

In view of the fact that the people of Ellsworth and vicinity are largely interested in the success of the Bangor and Bucksport extension to that city, they very naturally view with some distrust the proposition to build another road to Bangor by a shorter route. As L. A. Emery, Esq., remarked at Cherryfield, "Ellsworth would prefer to be the terminus of the B. & B. Railroad rather than a side station of the Bangor, Machias and Calais through line." But one fact should not be overlooked, which is, that a through line from Bangor to Calais will positively be built

at an early day; and it will be well to submit gracefully to the inevitable and reap what benefits may be derived from it.

Col. Greene is the projector and present manager of the Grand Southern Railway of New Brunswick. This road extends from St. John along the shore to St. Stephen, directly across the river from Calais. The Grand Southern amounts to nothing in itself and could probably never pay its running expenses if wholly dependent upon the country which it traverses for its business; but it is an important link in what is destined to be the great through route across the continent from the Pacific to the Atlantic, and the winter outlet to the seaboard for nearly the entire Dominion of Canada, including the great Northwest territory which is now being developed and opened up with marvelous rapidity. The road was built with this end in view. Canada must have a winter port for her great and rapidly increasing traffic, and she wants and will have it within the limits of the Dominion. Whether it be Halifax, St. John or St. Andrews an inspection of the map and a glance at the tortuous windings of the Intercolonial around the North Shore will show the absolute necessity of more rapid and direct communication between the Maritime ports and Montreal. The only possible way to obtain this is by crossing Maine territory, as this State pushes itself north a hundred and fifty miles into what is, geographically, a portion of the Dominion. The International Railway, which is to be extended from Lake Megantic on our western border across the State to some point on the European and North American, will, we are assured on the highest authority, be built the coming season. This would leave the line from Bangor to Calais the only gap to be filled, and this would soon be closed.

This is the object which Col. Greene has in view with regard to this Shore Line project. While we believe that the gradual extension of the B. & B. R. R., along the coast from Ellsworth could be made a paying enterprise, there are many who think otherwise, and it might be a long time before the shore towns secure a railroad if compelled to wait for such an extension. Now, they are offered the facilities of a standard gauge at a cost which is far from exorbitant and which should be within their means, and we must confess to a belief that they should accept it. As intimated above, there is scarcely a doubt that a road connecting Bangor with Calais will be built; and that speedily. It will not be dependent upon way traffic for its business, as it will form a part of a great trunk line. Consequently some inducements must be offered to bring it into the towns along the coast, especially Ellsworth, as Ellsworth would not wish to be left out in the cold and see the Washington county trade pass them by. We firmly believe there will be an abundance of business for both roads and that either will render valuable assistance to the other. Therefore we hope that both projects will be favorably considered and that the Bangor, Bucksport & Ellsworth R. R. and the Bangor & Calais Shore Line may soon exist elsewhere than on paper.

—Foreign exports from the port of Portland during last week amounted to \$358,173.16. Included in this were 936,291 feet of lumber.

COPPER—ITS VARIOUS USES.

[The Stockholder.]

Six months ago ingot copper sold in the New York market at 15 1-2 cents per pound. Now it sells for 20 1-2 cents per pound. Perhaps it may be useful to at least attempt to find some good reason for this sudden and large advance in prices, and also to take a cursory glance at the copper fields of the world, with a view to discover the sources from which a supply of this valuable metal will be drawn in the future. It will be well to also furnish as exact a statement of the present production of metallic copper throughout the globe, as our available sources of information will afford. And lastly, to mention more especially the resources of the United States, and the probability of our being able to furnish a supply for home use, as also a supply for the balance of the world, should there be a demand and a market for it.

There can be but one cause assigned for the present rapid advance in the price of metallic copper, namely, the intense activity in electrical science, and its rapid practical application to man's uses and wants. This practical use of electricity was doubtless furthered more by Dr. Franklin than by any other scientist, at least of his day. Previous to his time it was more of a study or experiment, known to but a few scholars and students of nature's laws. And now, in our day, it is reasonable to believe that to Edison, another countryman of ours, the world is and will be more indebted for giving form, force and direction to this wonderful and powerful agent, stored in inexhaustible supply, in Earth's atmosphere, for man's use, than to any other man.

With the invention of the great dynamo-motor machines of our day, it was found possible to supersede gas with electricity for lighting purposes. Already our streets, great warehouses, mines, factories and public halls, etc., are lighted with it. Its use in private dwellings will shortly follow. It is not unlikely that at some future day our cars will be drawn, and steamships propelled, by electrical instead of steam power. Perhaps, when coal gets scarcer and dearer, it will furnish heat for our dwellings. Soon we will not allow telegraph wires to be strung through our streets and over our buildings, to the detriment of life and property. And, when the time comes that telegraph wires must go under ground, it will not pay to use any other metal for making them than copper, or steel, copper coated. Even now, between all our populous towns and cities, it is a question whether it would not be cheaper in the long run to string our telegraph poles with copper wires, or steel wires copper-coated, owing to their greater durability and conductivity, just as railroads have found it more economical to use steel rails rather than iron.

For conducting electricity for lighting, heating, or power purposes, copper wires must be used, and of considerable weight and thickness. It is said that Edison estimates that that he alone will require 2,000,000 pounds of copper for 1882. His is but one company. There are many other similar companies at work, not only in this city and country but all over the civilized globe. The same activity prevails wherever there are energetic, educated and civilized nations.

As no man could foresee the extraordinary demand for iron that would grow out of the invention of the steam engine, so no man living can form a correct estimate of the demand for copper, for the coming time, that will be created by this more modern invention of the dynamo-motor.

[To be continued.]

Personals.

J. W. DAVIS, Esq., of Ellsworth, made us an agreeable call on Saturday.

PROF. W. F. STEWART still remains in Washington, his address being 515 Fourteenth Street.

DANIEL SANBORN, Esq., a well known journalist and

lawyer, died in this city on Tuesday at the age of 70 years and 10 months.

SUP'T. DUNN, of the Stewart, came up from Blue Hill on Sunday and left for Boston that evening.

MR. F. H. WILLIAMS left this city on Monday on a trip to the Cherryfield mine and on his return visited Blue Hill.

GENERAL MANAGER THOMPSON and Directors HAMLIN and JENNINGS made a trip to Blue Hill to visit the Douglass mine on Saturday.

MAJOR DEXTER H. FOLLETT, Treasurer of the Granger Mining Company, will be tendered a reception in Boston, Feb. 22nd, by the staff of the Cavalry Battalion.

L. LINN SMALL, ESQ., of Lewiston, is about to make a trip to New Mexico, in the interest of the Lewiston mining companies now operating in the San Andreas Mountains.

JAMES H. ALLEN, a miner working near Bullion, in the Wood River Region, Idaho, and a native of Calais in this State, was frozen to death on the night of Saturday, the 14th inst., on the road between Hailey and Bullion. The Hailey Times of January 18, gives full particulars of the sad affair. Deceased was about 37 years of age.

MR. THOMAS STEPHENS, Superintendent of the Sullivan Mine, was in the city a portion of Tuesday afternoon en route to the Boston office of the Sullivan Company, and made the MINING JOURNAL a pleasant call. Mr. Stephens has had many years of practical experience in mining in various portions of the country and is thoroughly conversant with the business in its various branches. During the few months he has been located at Sullivan he has accomplished a vast amount of efficient work and at comparatively light expense.

Dips, Spurs and Angles.

—Most great singers are accused of taking some slight stimulant, but few know how much it takes to prime a donna.

—"Syracuse has a female architect." Norristown hasn't a female architect, but she has more than one designing woman.—[Norristown Herald.]

—Strauss, the composer, once wrote a waltz on his wife's cuff, as they were walking in a park, nothing else being at hand; but then many a man has been made to waltz by his wife's cuff.

—It is feared that the enormous manufacture of wooden toothpicks is utterly destroying the forests of America, but then the young man who spends all his money for good clothes must have something to eat.

—There was a masquerade ball at Sawtooth, in the Wood River region, recently, and, there being no women in camp, four miners personated a Chinawoman, an Oakland belle, a negro wench, and a consumptive female aesthete.

—The Plainfield Bulletin has a spite against Maine because "it lumbers up the rest of the country."—[Phil. News.] The Bulletin should be re-joist that the great, lumbering fellows are all Maine men.—[Yawcob Strauss.]

—The ten plagues of a newspaper office are bores, poets, cranks, rats, cockroaches, typographical errors, exchange fiends, delinquent subscribers, book canvassers and the man who always knows how to run the paper better than the editor does himself.

—If the Concord philosophers should invite Oscar Wilde to a seance, and he should succeed in harmonizing his phil-

osophy of the beautiful with the "actuality of the thingness of the here," Plato and Kant might hide their diminished heads. Philosophy would have no more worlds to conquer.—[Springfield Union.]

—The most extensive moss-agate beds are found 880 miles west of Omaha. These beds are about fifty yards wide and nearly 100 yards long, being separated from each other at a distance of from one to two miles. The intrinsic value of the agate consists in its display of moss, the pine and cedar forests being the most prized for jewelry sets.

—The annual election of the Reading Railroad Company is now taking place in Philadelphia, and Franklin B. Gowen, the former president, seems to stand the best chance of once more filling the office.—[Salem Sunbeam.] The question this item suggests is: Why should Franklin B. Gowen, if the prospect is so good for his stayin'?—[Yawcob Strauss in Cambridge Tribune.] The result of the election furnishes the answer. He received the most votes; consequently, we see Franklin B. go in and Major Bond go out.

—Senator Fair, of Nevada, who is conspicuous for gallingantry, is a member of the Senate Committee on Woman Suffrage. This is a great point for the woman suffragists. When a strong-minded, short-haired female approaches the Senator to interview him on the suffrage question, he will put his hand on her head, after his usual paternal manner, and say: "My dear, I have no influence with the Committee. They're a bad lot of men; I don't think they care a continental for the rights of down-trodden women, but I'll mention the matter to them, my dear, I'll mention it."—[San Francisco Report.]

—The coroner's verdict at Kennebunk yesterday upon the investigation into the late railroad accident on the Boston & Maine is a curious piece of literature in its way. It says in substance on the question of original defect in construction that the experts are a little mixed in their opinion and so are we, and on all other points they are in the same box. But on one point and only one do they seem unanimous; and that is that valuable assistance was rendered them, the jury, by George C. Yeaton, counsel for the road. Mr. Yeaton, take your place at the head of the class—Yeaton, Webster and Choate.—[Boston Star.]

—The phosphate beds of South Carolina had been discovered just before the war, and a prominent professor of Chemistry was engaged in analyzing them, when the ordinance of secession was handed him; he read it hastily, and then threw it aside with the remark; "This is not what South Carolina needs; she needs manure." Twenty years have elapsed, the experiment of secession has been tried, and now the exhibition of phosphates at Atlanta was one of the most interesting matters to be seen there. The fossils of the confederacy are made use of to advertise the benefits of the manure.

LODES, LEADS AND VEINS.

MASCOT.—A shipment of ore from the Mascot Mines has been made to the New England Smelting Works during the present week by rail.

SUNBURST.—The annual meeting of the stockholders of the Sunburst C. & S. M. Co. will be held in Ellsworth on Tuesday, Feb. 14th, at 7 P. M. Work progresses steadily at the mine and improvement is noticeable every day. Copper and Silver are increasing in quantity and richness and the copper gives \$11.00 in gold.

SULLIVAN.—We learn from Supt. Stephens that underground developments are progressing rapidly and very satisfactorily. The main shaft is down strong 350 feet and sinking is steadily underway, Rand drills being employed for this purpose. The vein holds its general characteristics and the ore continues of excellent grade. A new feature in the ore is the prevalence of gold and a recent assay showed about \$16 of gold to the ton.

Blue Hill.

Although the shares of the Blue Hill mining companies are quoted at extremely low prices in the market, the best judges

of the merits of mining property were never so sanguine as now with regard to the future value of the mines. Development is the only thing required to prove their worth, and that is now being vigorously prosecuted. The Favorite, one of the very promising properties of the district, will start up in early spring, and it is hoped the Blue Hill Central will also resume operations. This latter made a most flattering showing at the time work was discontinued, and it seems a great pity that it should so long remain idle.

DOUGLASS.—Mr. Geo. Thompson, the new Superintendent, arrived in town last Saturday. Mr. Jennings, of Boston, and Gen. Chas. Hamlin, of Bangor, came with him. Contract work is now being done in drifting and stoping and the new big pump will be in complete working order about Feb. 1st. Mr. Davidson, the new superintendent of the smelting department, has had perfect success with the furnace since he started it up a few weeks ago and finds no difficulty in making a matte of about 38 per cent. grade which is now worth about \$130 per ton. A furnace of much larger capacity is needed and will probably be built soon. Then the smelting department will be complete, at least for a time. The ore that is being raised continues of the same good quality as heretofore.

STEWART.—Shafts Nos. 2 and 3 are now down about 117 feet, and show a well defined vein. The ore is improving in quality with increasing depth and the outlook for the future is considered very promising. The shafthouse over No. 2 will soon be completed.

BLUE HILL.—Supt. Moyle is highly pleased with the recent showings of the mine. The vein is wide and of excellent quality. The lowest depth attained is 180 feet. The eastern drift on the first level is in about 200 feet and a winze is being sunk about 90 feet from the shaft which is down about 50 feet below the first level. There are 7 distinct crews now employed underground and the recent developments are very encouraging. It is the object of the company to develop the mine as rapidly as possible.

MAMMOTH.—The large shafthouse is not yet completed, but soon will be. The hoisting works are ingeniously planned and will be amply sufficient for sinking to a considerable depth. Sixty tons of fine ore were shipped to Portland not long since and high hopes are expressed of the future developments of the mine.

YOUNG HECLA.—The vein, found some time since by drifting from the first sinking through the soil, will probably soon be reached by the permanent shaft. Sinking was resumed on Saturday last. The new engine works finely, and Capt. Ludlow, who has had large experience in the Lake Superior district, is very sanguine that an excellent mine will be developed on the property.

British Provinces.

A Manganese mine, seven miles from Truro, N. B., is being worked by E. F. Couch.

The Coe Phosphate Mines, at Shalesville, Ontario, have taken out a large amount of mineral during the last three months. A carload of phosphate is now at the Murvale station, ready for shipment. Sixteen miners are employed.

The Copper Prince Mining Company will be organized in New York in a few days to develop an extensive mining claim in Nova Scotia on the shore of the Bay of Fundy, near Digby. Some prospect work has been done and considerable native copper has been discovered. It is understood developments will be shortly prosecuted on an extensive scale and great results may be anticipated.

A new coal mining company has been organized in Cape Breton, with a capital of \$500,000, of which \$400,000 is to be immediately expended on developing and working the coal area. The location is near North Sydney, and adjoins the famous Sydney mines. Its area comprises ten square miles, and is estimated to contain ninety million tons of workable coal. One of the principal directors is Mr. Alexander Gunn, M. P. for Kingston. The prospectus says: "The prospects of the future coal trade of the Dominion were never more promising than they are at present."

NOVA SCOTIA COAL SHIPMENTS FOR 1881.—From the Trade Journal we learn that the shipments of coal from Vale Colliery, Pictou, during the last year, were \$6,394 tons, an increase over the preceding year's shipments of 790 tons. Shipments from Spring Hill were 151,722 tons, an increase of 30,431 tons. Acadia Colliery shipped \$1,346 tons. Shipments from the Cape Breton mines were as follows: Little Glace Bay Mines 31,800 tons, an increase over 1880 of 5,360 tons; Caledonia Mines 42,600 tons, an increase of 20,480 tons; Ontario Mines 13,360

tons, an increase of 5,448 tons; Reserve Mines 67,000 tons, an increase of 35,386 tons; shipments from the Block House and International Mines were over 100,000 tons; total shipments from Nova Scotia mines during 1881 were 574,162 tons, an increase over the preceding year of 97,895 tons.

SPRING HILL MINING CO.—The annual meeting of the Spring Hill Mining Company was held at 11 o'clock yesterday morning in Room 6, Magee Block. The report of the directors stated that the total output during the past year was 170,000 tons, and the production had been limited only by the Intercolonial Railroad being unable to furnish sufficient cars. During the meeting a telegram was received from Spring Hill, stating that ten feet of superior coal had been driven into a tunnel at the dip and the total thickness was not yet known. The old Board of Directors were re-elected, as follows: Hon. Senator MacFarlane and Messrs. R. P. Starr, S. S. Hall, John Magee and James L. Dunn. At a subsequent Directors' meeting, Senator MacFarlane was again chosen President. —[St. John Sun, Feb. 1.]

CAPE BRETON OIL FIELDS.—A letter received by a well known Boston merchant, dated at Port Hawkesbury the 23rd inst., says: "As I wrote you previously, the Straits of Canso are literally filled with floating ice, and it is very hazardous crossing to Port Mulgrave, the terminus of the Halifax & Cape Breton Railroad. It is exceedingly dull here, but yesterday we were enlivened by the report of a new era in the oil world—that the Inverness Oil and Land Company, of Lake Ainsley, had struck a flowing well (No. 8) at the rate of five hundred barrels per day. The last well, unlike the others, shows a very fine grade of petroleum oil, and which has caused a great sensation among our people. Yesterday we noticed a stranger among us, and upon examination it proved a Standard Oil employee, and it was ascertained that four car loads of oil machinery were at the railroad station. So you notice that we are to have the Standard down East; but it will be hard to cope with the Inverness, with its 40,000 acres of territory and its special Parliament acts, &c., which must shut the field against all comers."

ELM TREE SILVER MINE.—Mr. Edward Jack, who has lately visited the locality, furnishes the St. John Sun with a brief description of this promising property. It is situated on the north branch of Elm Tree River, a stream in the county of Gloucester, about 12 miles in length, which empties into the Bay of Chaleur at a distance of 13 1-2 miles north from Bathurst. The location is between three and four miles distant from the Intercolonial Railway. The vein crops out on the banks of the stream, which is here rapid, running over a rocky bed. It has been opened to a depth of but a few feet, where its breadth is shown to be from 6 to 7 feet. The south wall is of slate, while the north appears to be of whinstone; the gangue is quartz. The ore is chiefly galena, associated with zinc blende; numerous assays show the former to be rich in silver. Mr. Jack also observed in the vein some yellow copper ore, minute inclusions of azurite and malachite, and a mineral which he believed to be bournonite. Mr. Jack says that this vein is the most promising looking one for abundance of ore which he has seen in New Brunswick with, perhaps, the exception of the antimony deposits of Lake George. It occurs at a point where the sedimentary rocks are intersected by those which are eruptive and he has every faith that other veins will be found in the same vicinity since the intrusion of the igneous rocks which formed the fissure in which this vein occurs has in all probability formed others of a like character. The situation of the vein is most desirable, close to a good water power, and in a neighborhood where labor is cheap and very abundant.

Croppings.

[Compiled, Condensed and Condensed from our Exchange.]

Rico, Colorado, is experiencing a midwinter boom.

The consolidation of the two mining exchanges in New York is again talked of.

The recent strike in the Dankin (Leadville) Mine has caused a sharp advance in the price of the stock.

The Homestake, the famous gold mine of the Black Hills, has recently struck another enormous ore body.

What is home without a mother? And what is a mining company without a mine? Ask the holders of Mineral Creek and Miner Boy. —[Daily American Exchange.]

The lower levels of the Silver King Mine, Arizona, are timbered with pine from Oregon and Truckee, California. The timber costs at the mine \$45 per 1,000 feet.

The McMackin Mica Mine, in the Black Hills, has been lately sold for \$37,500. It has an immense ledge and is reported to have already shipped 10,000 pounds of mica.

Colorado is to be congratulated upon having but one mining

exchange at present, that at Leadville, although one is talked of at Rico. The Denver exchange collapsed some time since.

The Mayflower Mine, in the Wood River region, is really sold at last. The purchasers are a strong Chicago company, which John V. Farwell is President, and the price paid was \$75,000.

One village in New York State, called Richburg, in which oil was struck last July, and is now producing 10,000 barrels a day, has run up to 5000 inhabitants from 250. It has 25,000,000 barrels of oil in its tanks.

An Eastern mining contemporary, which is in the habit of giving its readers gratuitous advice on mining investments, recently counselled holders of Mineral Creek, (Arizona), to sell. Considering that the mine was sold a short time since, by the Sheriff, for a dollar and a half, we should say it is about time that owners of this stock commence to think of realizing.—[Pinal (Arizona) Drill.

Columbus district, Nevada, is destined to become one of the most prosperous mining sections in the country. The recent strike in the Northern Belle is considered of vast importance to the other mines of the district, showing that the ore improves in quantity as depth is attained. A new 20-stamp custom mill for the district has been contracted for, and the cost of milling is already reduced to \$17.

The old reputation of India as the "sink of the precious metals" appears from an official paper recently published in Calcutta to be well maintained, notwithstanding the decline in the imports of silver. It seems that the net imports of the precious metals during the last 25 years—that is, the amount after deducting the quantities exported—have reached the enormous sum of £285,500,000 sterling. Last year the registered imports of gold were nearly 80 per cent. greater than in the previous year, and the largest of any year since 1870-1. This is considered to indicate a return of prosperity and a consequent increased demand among the people for hoarding and for ornaments.

The bullion product in the States and Territories west of the Missouri River, and of British Columbia, for 1881 is reported by Wells, Fargo & Co. at \$84,504,417. Of this there were \$31,869,681 in gold, \$45,077,829 silver, \$6,361,902 lead, \$1,195,000 copper. Bullion from the Comstock carried about 47 1-2 per cent. gold to 52 1-2 per cent. silver. The base bullion districts of Nevada carried nearly 44 3-4 per cent. gold, and the whole State 26 1-2 per cent. gold. The principal bullion producing States were Colorado, \$22,959,160; California, \$18,020,679; Nevada, \$11,847,564; Arizona, \$8,198,766; Utah, \$7,311,288; Montana, \$4,359,071. The yield from the Comstocks was \$1,726,162, against \$5,312,502 in 1880. Colorado's product increased this year \$1,672,171, and Arizona's \$3,726,395 over the report of last year.

The Portage Lake Gazette contains the following: During a period of less than thirty years the mines of Lake Superior have produced over 330,000 tons of ingot copper, which represent a value of not less than \$135,000,000. The copper mineral product of the Ontonagon district in 1881 was about 570 tons, which, added to the yield of the mines in this district last year, reported last week, makes a total of 33,936 tons. The tributors produced about 100 tons, which makes a total of 34,036 tons of copper mineral as the output of Lake Superior in 1881. Two weeks ago we gave the amount as 34,102 tons. Since the commencement of iron ore mining on the Upper Peninsula the mines have yielded over 17,000,000 tons of ore, representing a value in the neighborhood of \$139,000,000. The industrial career of the copper and iron fields of the Upper Peninsula does not cover many years, which fact emphasizes the copper mineral and iron ore output of the region in 1881, which amounts to 34,000 tons of the former, worth about \$10,000,000, and 2,300,000 tons of the latter, worth in the neighborhood of \$18,000,000, making a total moneyed value of \$28,000,000! Both branches of industry the present year promise to do better in yield than in 1881. The Upper Peninsula's output of ingot copper, iron ore, charcoal and pig iron, from the commencement of industrial operations up here to Dec. 31, 1881, embracing a little more than a quarter of a century, represents a money value of nearly \$300,000,000.

—The manufacture of slate pencils is carried on very extensively at a quarry in the vicinity of Castleton, Vt. About 35 workmen are employed and the daily product amounts to 50,000 pencils, and it is proposed to increase the daily output to 100,000. The blocks when quarried are sawed into pieces seven by twelve inches, split to a thickness of a half inch and smoothed by a planer. The block is passed under a semi-circular knife, and, after having been turned over, the process is repeated. They are pointed by a grindstone, turned, assorted and sent to market in boxes of a hundred.

EASTERN INDUSTRIES.

The Long Cove Granite Company, at Tenant's Harbor, have resumed operations at their quarry.

Over two tons of butter is shipped per month from Guilford, all of which is handled by two firms.

The farmers of Wayne are contemplating the erection of a factory. About one-half the stock has been already subscribed.

The Calais Times says that McAllister's box factory, recently burned at Milltown, is to be rebuilt on a larger and better plan.

The firm of Ezra Whitney & Co., Rockland, received 12,000 pounds of wool from O. J. Fernald, of Thorndike, one day recently.

The stock in the Turner Center cheese factory is nearly subscribed for. A cheese factory is also contemplated at Turner Village.

Mr. R. W. Kimball, on Exchange street, recently sent a lot of cant-dogs, manufactured at Orono, to Alabama, Kentucky and Quebec.

Fifteen hundred Singer sewing machines, valued at about \$50,000, have been sold in Aroostook county within the past three years.

Massachusetts parties are negotiating for the purchase of the Kelley paper mill, at Belfast, for the purpose of manufacturing roofing paper.

The Union Compound Company, of Portland, have commenced operations. They will do a large business and cover a wide field of operations.

The Camden Herald says five four-horse teams, with loads of railroad iron, from the K. & L. R. R., Rockland, arrived last Friday for the Anchor Works.

E. T. Burrows is to start a new industry at his store on Middle street, Portland. He will manufacture the wire used in his wire screens for doors, windows, etc.

There are 28 sardine factories on the Maine coast, situated as follows: 18 at Eastport, 4 at Lubec, 3 at Jonesport, 1 at Robbinston, 1 at Milbridge and 1 at Lamoine.

Marshall & Irish, at Sumner, have quite a large crew at work getting out poplar for pulp. White birch is also coming in freely for the dowel factory of R. A. Huse.

For December the Maine Central freight department brought 2,274,675 pounds of freight into Bath and sent out 2,119,446 pounds, and received \$1,924.72 for the latter.

W. T. Pearson & Co. contemplate the erection of a pulp mill in Oldtown. At a recent town meeting it was voted to abate taxation on the property for a period of ten years.

Merrill Bros., at Cumberland, are packing about 150 carcasses of mutton and beef daily, great care being taken to ensure neatness. Some thirty hands are employed at present.

The Lewiston Journal says the Mexico people are busy getting out ash, poplar, birch and other timber, in large quantities, for rakes, toothpicks, lamp-lighters, pulp, etc., etc.

The shovel handle factory at Farmington Falls is turning out a large quantity of handles this winter. The spool shop is also running on full time and the mill business is prospering.

Large quantities of brick are being hauled from Mr. Moody's kiln at North Monmouth for the new cotton factory to be erected by the Winthrop Mills Company the coming summer.

R. S. Morse of East Wilton, Me., the washing-machine man, proposes to establish the manufacture of his machines in Lewiston. Mr. Morse has already made and sold 15,000 machines.

Dea. Josias Milliken, of Baldwin, has contracted with Philadelphia parties for 5,000,000 nail keg hoops, to be delivered this winter. He will also get out eighteen or twenty thousand barrel and hoghead hoops.

J. G. Torrey & Sons, Rockland, are full of work at their brass foundry. They have just received large orders from New York for their bronze metal rowlocks, the trade being about to open for them.

Messrs. H. G. Brown & Co. have leased the steam mill at West Paris. They will employ from 30 to 40 men and will use about 900 cords of hard wood lumber annually in the manufacture of chairs and bobbins.

The Red Beach (Calais) Plaster Company are making efforts to more generally introduce their already famous fertilizer

among the farmers of this State. Their red granite works are now doing a flourishing business.

Russell Bros., at Phillips, have begun operations at their new steam mill. They employ 7 or 8 men, besides the great numbers that are engaged in hauling white birch and poplar to the mill to be sawed up for bobbin stuff.

The transfer of the old Frye property, at Lewiston, to the Home Manufacturing Company took place recently, and the cash was paid over. Albert Young, Esq., was chosen agent. Mr. Young is now superintending the repairs upon the property.

The Bath Times says that Goss, Sawyer & Packard are working on nine vessels of different sizes at present, including the steam whaler, but not including the City of Richmond, which is on their marine railway. When all hands are at work there are over 600 men on the pay roll.

Fred Atwood, the agricultural implement man, of Winterport, has just closed a contract with the North Wayne Tool Company for 1000 dozen scythes and axes from their factory. About forty men are now employed by this company at their works and their business is rapidly increasing.

In Umcoules Lake township, Aroostook county, on the proposed line of the Maine Central Railroad extension, are found hundreds of acres of variegated marble, capable of the finest polish. On Dudley Brook are inexhaustible quarries of fine slate, said to be fully equal in quality to that produced at Brownville.

The Courier-Gazette says that schooner Morris W. Child has just discharged at Camden 340,000 feet of hard pine, the largest cargo of the kind ever brought there. The lumber is for two vessels soon to be commenced in H. M. Bean's shipyard. The pine was shipped at Darien, Ga., and the run was made to Camden in eight days.

Some 70,000 bushels of potatoes have been shipped from Aroostook over the N. B. Railway, this season. Shipments thus far in January are light, probably owing to the slight decline in prices and the small quantity remaining in the hands of the farmers. They are expected to command very high prices in the spring.

The Milliken heirs have purchased a large tract of lumber lands and the mills on the old tannery privilege at Burnham and are intending, in the spring, to put in a new mill, with circular saw, clapboard, lath and stave saws. They have engaged all the spare help in Burnham, and are intending to drive business this winter in lumbering operations.

The Fairfield Journal says the Kennebec Framing Company, since its incorporation Jan. 21, 1881, a little over eleven months, has given regular employment to an average of sixty-five men, and has paid out for labor, \$25,235.34; for lumber, \$86,387.07; for freight, \$14,592.49; for sundry expenses, \$4,153.33; total, \$130,368.23. This amount, except the item of freight, is mostly disbursed in this town.

J. B. Ireland, of Caribou, raised last season 214 tons of hops, and has sold the entire crop in New York for 25 cents per lb., netting him 23 cents per lb. The amount of land cultivated is five acres. Though last year was not a good one, yet Mr. Ireland has realized \$1,035 from his hopcrop. His success has attracted attention to this crop and fifty acres will be raised next year in Caribou and neighboring towns.

Messrs. Brown & Hilton, of Anson, the genial proprietors of the Somerset House, and the famous breeders of Merino sheep, have had large sales from their flock the past season. They have disposed of about sixty bucks, ranging in prices from \$30 to \$75, while they recently sold one-half interest in a buck lamb for \$50. They probably have the largest and finest flock of Merinos in this section of the State.—[Fairfield Journal.]

Sprague's Mills is a little fast growing business village in the town of Easton, taking its name from the fact that Elijah & E. W. Sprague purchased the mills and mill power here some few years ago, and three years ago a post office was established here called the Sprague's Mill office. The place has grown quite rapidly and is promising to be the business centre of quite a community. It now has three stores, two blacksmith shops, one saw and planing mill, one starch factory, one cooper shop, market, and hall.

The mills of the Worumbus Manufacturing Co., at Lisbon Falls, are having a good sale of all wool goods. They are making a variety of patterns—such as beavers, piques, tricots, diagonals, &c., and have a steady call for them. They are putting on the Cole patent perfected motion for stopping looms when the filling breaks, thereby diminishing damage and waste. The machines, which are models, are put on by Mr. E. M. Cole, of Lewiston, and are giving the best of satisfaction. The patent

is owned by Peck, Clark & Co., of Lewiston. They will put on between fifty and sixty in the weaving room.—[Lewiston Journal.]

Massachusetts parties have purchased the entire telephone territory of Maine, including the Lewiston Line. There are 2,600 telephones in operation in this State. One of the first moves will naturally be the connection of these lines, also to connect with Salmon Falls, N. H., which is part of the territory covered by the Boston and Northern Telegraph Co., who control the State of New Hampshire, excepting Manchester. This established, will make a network of lines in connection from Bangor to New Haven, Conn.

The Porter correspondent of the Lewiston Journal says: The piles of logs are rapidly swelling higher and wider on the great Ossipee River: some to go down on the Saco, and some to Devereux and Elliott's mills to be sawed into lumber, boards and dimension stuff for building purposes. Teams are continually threading their way to the mill-brow with mammoth loads of logs for the same purpose, and piles of birch timber are going up as if by magic power in Merryfield's mill-yard, for bobbins. Loads of wood are continually on the move, passing and repassing to the factory yard and to the citizens' doors. All conspire to make a lively aspect in our little village.

The various manufacturing establishments at Harrison are nearly all run by steam at present. The large mills of the Wire Co. require two large engines, and the establishment is turning out wire as fast as possible, and cannot fill orders as fast as they are received. The machinery at the Foundry and Machine Shop of T. H. Rieker & Sons, is run by a good sized engine. Another large engine is found in the new Steam Mill, where a large business is being done at sawing staves, spool strips, etc., and turning druggists' boxes. In the shoe-work manufactory an engine is to be used to run the sewing and button-hole machines, and another small one in Jordan's store is used to run a good sized coffee mill.

The Biddeford Journal says the shoe manufactory of S. Newcomb & Co., in that city, employs over one hundred men and women in the various departments and has a capacity of turning out from four to five hundred pairs of shoes per day. The class of goods manufactured is ladies' fine button boots, which are sold directly to the retail trade and are not jobbed out at all. All goods are made to order, and the territory embraced for their sale includes all the New England States, New York, Ohio, Illinois and Missouri. The house was established in 1852 by Simon Newcomb, who at that time employed no help in his shop, but cut out the leather himself, and sent it by stages into the surrounding country towns to be stitched and made into shoes, which were then thin and light affairs without heels.

The ice harvest in Maine commenced in earnest the first of last week and is now at its height. On the Kennebec river, between Richmond and Augusta, where a greater part of the ice cut in this State is housed, about 12,000 men and a large number of horses are employed. The average wages paid the workmen, who come from all parts of the State, is \$1.50 per day and \$1.00 for a horse, so that fully \$20,000 are being paid out daily to laboring men in a distance of fifteen miles along the river. It is estimated that it will take all of three weeks to secure the crop, and in this time the ice companies will have paid out about \$400,000 dollars, a greater part of which will go into the pockets of the working people. The capacity of the ice-houses already erected between Richmond and Hallowell is fully 1,000,000 tons, and these will all be filled to their utmost extent.

Within the last six weeks many items have appeared in different papers in the State relative to the change of location of Hiram Holt's Hay Knife manufactory, now at Wilton. Lewiston, Auburn, Gardiner, Augusta, Waterville and Skowhegan have been in view by Mr. Holt, who has settled the matter by purchasing of the Dunn Edge Tool Co. their lower dam at West Waterville. The price paid was about \$5,000. A hammer shop with a capacity of eighteen trip hammers will be commenced in the early spring, which will be as large or larger than any hammer shop we now have, and will give Mr. Holt manufacturing facilities three times greater than he now has at Wilton. He will erect several dwellings for the accommodation of his workmen, many of whom are men with families. A force of seventy-five or more will be required to carry on the work under the new order of things.—[Waterville Mail.]

BLANCHARD.—Packard & Stacey are doing quite a business in the manufacture of staves. They have eight horses and four oxen hauling poplar at the present time, and employ quite a crew of men at their mill, which runs night and day on a big contract. They have contracted for quite a quantity of white birch which they will saw into spool timber and ship to Scot-

land. They have let their shingle mill to R. A. Packard, who is jogging along as usual. A man by the name of Rich is getting out last blocks and hauling them to the station for shipment. He employs about a dozen men and four horses. All we need with our water power and timber, is capital, and we can have one of the smartest places on the river. The Blanchard Slate Quarry, which contains as good slate as there is in the world, and an abundance of it, will be started up soon, employing quite a force. There is no doubt but that our little town is destined to become one of the leading towns of this county.—[Observer.]

The Calais Times says: Applications for permanent employment at the cotton mill are coming in from all sections, and there is none of the predicted difficulty about getting the best of workmen to come here. Those who have arrived to take charge are among the most skillful in their various departments, and are all young men full of energy and ambition, which cannot fail to make this mill a success. What is equally pleasant, they are all common sense, courteous young men, whom people readily take to, and, as thus far they like the natives, we are in a fair way to have a mutual admiration society. Applicants for positions are all heard and their names and trades registered, and in due time the needed ones will be selected. It is said the male workmen will get from \$1.25 to \$2.50 per day, varying with the kind of work done, and the females operatives will make from 75 cents to \$1.25 per day. With about 600 persons employed the monthly pay roll will be a comfortable sum to divide among our retail traders.

Waterville Industries.

THE LOCKWOOD MANUFACTURING COMPANY—HOLT'S HAY KNIFE MANUFACTORY.

WATERVILLE, JAN. 31st., 1882.

To the Editors of the Maine Mining Journal:

The Lockwood Company are just completing their Mill No. 2 in Waterville. This company was organized in 1875 and purchased the Real Estate and Waterpower of the Ticonic Water Power and Manufacturing Co. This property consisted of a dam across the Kennebec River with some over four hundred acres of land in Waterville and Winslow, having a water-front in Waterville of three-fourths of a mile, and a mile and a quarter on the Winslow shore. On this property were about forty tenements and shops belonging to the company, a Grist Mill and a large saw mill owned by parties who hired water power of the company. The Lockwood Company's Mill No. 1, having a capacity of about 32,750 spindles, was started early in 1876 and has been run with good financial success to the present time. One year ago it was decided to increase the capital stock of the company from \$600,000 to \$1,500,000, and build Mill No. 2. The new stock was eagerly sought for and soon all taken up, and the new mill is now nearly ready to run. The power will be furnished by four "Hercules" wheels, each of a diameter of 51 inches, under a head of 20 ft. The capacity of the new mill will be 54,784 spindles, making with Mill No. 1 some over 87,500 spindles. The number of looms to be placed in the new mill is 1144, of which 32 are to be 108 inches wide, 32 of 96 in., 32 of 86 in., 108 of 48 in., 800 of 40 in., and 140 of 36 inches. The most of the machinery is being manufactured in Lewiston and Biddeford, in this State, but a small part has to be imported from England and a few machines manufactured in Lowell, Mass. The number of hands employed in both mills will be not less than one thousand, and some more than four and a half million pounds of cotton will be consumed annually. Mill No. 1 will be run on fine goods to be bleached; coarser goods to be sold brown will be produced by the new mill. To make room for the above increase it became necessary for the large saw mill, before referred to, to be removed, so that our citizens are now compelled to depend upon the neighboring town of Fairfield for all the lumber they use.

Hiram Holt, of Farmington, has just purchased from the Dunn Edge Tool Company, of West Waterville, their lower privilege, about three-fourths of a mile below the Cascade Fall on the Messalonuskee. The purchase includes a dam across the river, with an acre or two of land. He is to have the privilege of buying as much land adjoining as he desires, at a stipulated price. The prospect of a large cotton mill being erected on Cascade Fall next season renders it probable that he will avail himself of this privilege and purchase several acres. Mr. Holt has been engaged for some years in the manufacture of hay knives at East Wilton, employing twenty men and manufacturing three thousand dozen per year. He will move these works to the site of his recent purchase at West Waterville and increase their capacity about three fold.

INDUSTRY.

—The Sunday Times says there is excitement in Cape Elizabeth over the existence of a coal mine.

Railroad, Steamboat and Hotel Notes.

Messrs. Quinn & Co., of Portland, are building a new boiler for the steamer Ralph Ross, of this city.

Ezra Bramhall, of Camden, proposes to build a small steamer to be used for the Mount Desert business next summer.

Negotiations have been opened with a syndicate of capitalists who desire to purchase the New Brunswick and Canada Railway.

The tow boat Howell, of this city, is lying at Franklin Wharf, Portland, where Quinn & Co. will make extensive repairs on her boiler.

The Grand Southern Railway Company are erecting a substantial depot at St. Stephen. Trains are now running on alternate days.

The steamer Pioneer is to take the place of the Henry Morrison during the present winter on the route between Rockland and Blue Hill.

The preliminary survey of a branch railroad from Houlton to connect below Patten with the trunk line from Presque Isle to Dexter, will be made the ensuing spring.

It is reported after the Maine Central Railroad car and machine shops are removed to Portland that the company will erect a handsome station at the West End.

The report is current that the Grand Trunk Railway will make connection with the Northern Pacific at Duluth, with a view of securing a portion of the traffic from the northwest for Montreal and the seaboard.

The Pillsbury House, the new hotel at Old Orchard Beach, is situated on the sand bluff near the Old Orchard Junction R. R. station, and overlooks the entire beach from the mouth of Saco River to Pine Point. It will be 80x60 feet, four stories in height, with a veranda on three sides, and has by far the pleasantest location on the beach.

The Heselton House, Skowhegan, is rapidly approaching completion, and when finished will be one of the finest hotels in this section of the State. It has 98 rooms, all neatly furnished, heated by steam and lighted with gas. The arrangement of the house is very convenient, and under the charge of Mr. F. B. Heselton will become a popular resort for the travelling public. The cost of the house is between \$35,000 and \$40,000.—[Fairfield Journal.]

A syndicate has been formed by a half dozen leading capitalists of St. Paul & Minneapolis, Minn., for the purpose of opening the National Yellowstone Park. The intention of the syndicate is to build and equip a branch of the Northern Pacific from the nearest point into the park, eighty miles, lending the necessary sum at seven per cent. to the railroad, on a first mortgage. They will expend \$150,000 in erecting hotels. This wonderful region will then be opened to the world and will doubtless become a great resort.

The Portland Sunday Times says the International Line Steamship Company are about to establish a new branch of business in connection with their blacksmith and forge shops in that city. In the past they have been obliged to have all the brass and tin repairing work on their steamers done by contract, but now the company propose to do it themselves. They have purchased new machinery and tools and have finished off rooms on their wharf at an expense of several thousand dollars. W. H. Durgin, formerly with O. M. & D. W. Nash, will have charge of the shop.

The Argus says that the officers of the Maine Central Railroad have voted to accept the proposition of Portland in offering them at a nominal rate, for a term of twenty-five years, the lease of the powder house lots and flats for the use of their machine shops. The Press hears that the Maine Central at their recent meeting in Portland repeated the proposition lately made to the Knox and Lincoln Road; this is to be their ultimatum: They agree to lease the Knox and Lincoln at \$60,000 for the first twenty years, and \$72,000 thereafter. The directors also voted to purchase six new cars and two locomotives.

Mrs. E. Manson and Son, who have made the St. Cloud, at Old Orchard, so popular during the last ten years, have purchased the Augusta House, at Augusta, and will take possession the first of the present month. The St. Cloud was destroyed by the disastrous fire at Old Orchard last November, and owing to a lack of enterprise on the part of the city of Saco in not providing proper measures to prevent a recurrence of the disaster, the proprietors deemed it not advisable to rebuild. Mr. Albert C. Manson has been the popular clerk of the Augusta House for some time past, and under his management this well known hostelry will be fully kept up to its usual high standard.

The El Dorado Hotel at Castine.

A MODEL SUMMER RESORT ON THE COAST OF MAINE.

On another page of this issue will be found a handsome illustration of a spacious public house which during the coming summer will take prominent rank among the leading sea side hotels along the coast of Maine.

Some months ago the Castine House, long and widely known from its historical associations, was purchased by Mr. Wilkie Darling and, with the enterprise characteristic of all of his efforts, varied and extensive improvements were at once inaugurated. These transformations are now rapidly progressing and the Castine House enlarged, refurnished and put in thorough order for the reception of guests will be opened to the public on the 15th of May under the name of "El Dorado Hotel."

The El Dorado will have ample accommodations for 200 guests and will be run in a first-class manner. A large billiard hall and fine croquet grounds will be arranged for the convenience of guests and well kept livery and boarding stables will be connected with the house. The attractions of Castine as a place of summer resort are many and varied. No more charming spot to seek rest from the cares of a busy life can be chosen. The scenery is delightful, healthful recreation abounds on every hand and it is a centre from which numerous excursions can be made. The facilities for boating, fishing, gunning and bathing are unsurpassed and place Castine far in advance of most places as a summer resort. The El Dorado is also located in the immediate vicinity of some of the most valuable and extensively developed mines of the State, and within a few miles of the hotel mining operations are being prosecuted on a scale of much magnitude. The El Dorado from its central location will be a great convenience to mining men and will be excellent headquarters for persons visiting the mineral fields of Eastern Maine. The proprietor is himself actively interested in the mines and is in position to give his guests information in regard to them.

With the myriad attractions at Castine, and the excellent accommodations offered at this model public house, the El Dorado is surely destined to receive a large share of patronage during the present year and under the energetic management of Mr. Darling we predict it will obtain a popularity which will ensure an abundance of guests during succeeding years.

Nuggets.

—We are in receipt of Leavitt's Farmer's Almanac for 1882, published by Edson C. Eastman, Concord, N. H.

—The Maine Press Association have voted to excursionize during next July to Campobello or Grand Menan.

—The Boston Brokers' Club were entertained Wednesday evening at the Parker House by Mr. Edward H. Goff.

—The Portland Globe Annual is a handsomely illustrated almanac for 1882 and is a publication of much interest.

—The N. Y. Graphic of Jan. 28th contains a fine illustration of the late Rev. Dr. Enoch Pond, of the Bangor Theological Seminary, from a photograph furnished by Mr. C. L. Marston, of this city.

—There is a movement among some of the sportsmen of this State to introduce the California quail (*Lophortyx Californicus*) into the Maine woods. Subscription papers are being circulated in the western part of the State for the necessary funds.

—Mansill's Almanac of Meteorology and Planetary Phenomena for 1882 has been received. It is an almanac maker's and weather forecaster's guide and introduces a system of science regarding weather prophecy entirely new. Published by R. Mansill, Rock Island, Illinois. Price 25 cents.

—The exports of white pine lumber from the port of New York during 1881 amounted to 259,279,000 feet. This is a considerable advance on the exports of the previous year. The lumber was shipped to 56 different points, including Havana, Spain, Italy, Africa, Australia, New Zealand and the East Indies.

—As per announcement elsewhere, stockholders of the Harrington Silver Mining Company are requested to send in their trustee receipts to the Secretary and receive in return the stock certificates, which it has been voted to issue. It is the intention of arranging for a resumption of work at the mine without a reorganization upon the assessable basis.

—The Combination Mining Directory is a recent publication of much value to mining men. It gives an alphabetical list of the Mining, Milling, Investment and Developing Companies of New York, Philadelphia and Boston, and publishes the names of the members of the Boston Mining and Stock Exchange, the New York Mining Stock Exchange, and the American Mining Stock

Exchange of New York. The work is especially convenient for reference. Edward P. Ahern, of New York, is the publisher.

—The Steamship "Comte d'En," the first of the Brazilian Line to sail from the port of Halifax, recently sailed with a cargo for Brazil consisting of 3,650 drums of dry fish, 259 cases of preserved lobsters, oats, flour, potatoes, deals, etc., valued at \$16,990; also a large quantity of pickled and dry fish, valued at \$5,178, for St. Thomas. The total cargo was about 900 tons weight and valued at \$30,168.

—The Daily Graphic, with its characteristic enterprise, has issued a pamphlet publication on Statistics which is a valuable contribution to financial literature. The volume comprises about 125 pages abounding with valuable statistics in regard to Railroads, Grain and Produce, Cotton, Petroleum, Mines, Mining Dividends, Bullion Production, etc., and containing a large number of valuable reference tables. A wealth of facts and figures of universal interest have been compiled in this model publication and it should be in the hands of every business man.

—Dr. Lyon Playfair publishes in Macmillan's Magazine an article on American industries. Dr. Playfair credits the protective system with the rapid growth of certain industries, such as the cotton, woolen and iron, and concedes that American manufactures, although alleged to be dear, are honest and good. American mechanics are, he says, more honest and efficient than foreign; and he concludes that nobody expects the speedy establishment of free trade, nor is a rapid transition desirable. He declares that the United States is about to become the great manufacturing country of the world.

—The Bangor Art Association have arranged for a brilliant entertainment, for the final one in their course, which will be given in Norombega Hall on Monday evening next, and will consist of Dramatic, Pathetic and Humorous readings and impersonations by Mme. Hernandred Ricard, who is one of the most popular and gifted readers of the day, and Whistling Solos by Miss Ella M. Chamberlain, who, alone, would draw a large audience. Her whistling solos are wonderful and she always creates a furore wherever she goes, and wins the admiration and applause of the public. The tickets are 35, 50 and 75 cents.

—In New York there are 41 different establishments devoted to the kindling wood trade alone. The largest of these concerns is C. W. Alcott & Co., who have a capital of \$300,000 invested in their business, and employ in the busy season from 600 to 700 hands. They cut and prepare most of their wood in the forests of Virginia, employing in that department a force of 500 to 600 men. Last year they handled 25,000 cords of wood. They are interested in seven vessels, and charter others in order to keep up the demand. Two steam engines of 60 horse power each, drive the machinery that is used for sawing and splitting.

—To those deluded individuals who think that prohibition prohibits in Maine, and that intoxicating beverages have been practically banished from the State, we commend the following local item from the current issue of the Rockland Opinion: "Mr. E. F. Murphy has sold the bar-room and business in McLoon Block which has been conducted by him very successfully for several years, to Ex-City Marshal Frank H. Ulmer and his brother Edgar O. Ulmer, who were associated in the bar and restaurant business in Young Block up to the time when the senior partner was summoned by our temperance Republican city fathers to enforce the laws. Mr. Murphy has kept good liquors and maintained an orderly drinking place, and we have no doubt his successors will do the same."

—The Blue Hill correspondent of the Commercial writes as follows: Messrs. Hill, Googins & Co. who secured the mail contract between here and Bucksport have purchased the new stable built by A. P. Carrier, and everything is working well on the route. Our mail reaches us several hours earlier than formerly, as it leaves Bucksport immediately on the arrival of the train from Bangor. This is also very good for the people of Bangor who are so largely interested in our mines, for they come right along without any delay now. Messrs. H. G. & Co. have on the route two nice covered coaches and with four fine horses a person can come over the road in a very few hours. The company propose to put on a new six horse coach in the summer, to connect with the Sanford S. S. Co. at Bucksport, and if so, it will become as popular as the celebrated F. O. Beal line to Bar Harbor.

THE MIDWINTER (FEBRUARY) CENTURY.—After the new cover, the first "midwinter issue" of The Century is chiefly distinguished by its unusual range of popular contributors, whose names of themselves awaken in the reader the desire to see their contributions. Of these are Ralph Waldo Emerson, Henry W. Longfellow, the late Dean Stanley, Mrs. Burnett, Mr. Howells, Frank R. Stockton, "H. H.," E. C. Stedman, H.

C. Bunner, each of whom has his special audience. Add to these attractive names the other features: a fine portrait of George W. Cable, author of "Old Creole Cays" and "The Grandissimes," engraved by Cole, with a sketch by Col. Waring; another of the amusing "Tile Club" papers, illustrated by ten of the members of the Club; the text (somewhat abridged) of Mrs. Burnett's play of "Esmeralda," now running successfully at a New York theatre; an illustrated account of the growing sport of Lawn Tennis, with full directions; a review of "Significant Features of the Atlanta Exposition," by Edward Atkinson, Esq., who, we believe, was the prime mover in that enterprise; and a beautifully illustrated paper on "The Phidian Age of Sculpture"—and it will be seen that the number contains rare elements of popularity.

—It is probably safe to assert that there is no commodity in course of production in this country which has had such a marvellous growth as that of the Michigan salt staple. The first salt was produced in the State in 1860. The production increased from about 4,000 barrels in 1860 to 560,815 barrels in 1869, when the State Inspection law went into effect. The increase was gradual and nearly uninterrupted up to 1881, when the production was 2,750,298 barrels. The entire product of the State up to the close of the year 1881 was nearly 21,872,247 barrels. The salt producing territory of Michigan covers, as now developed, over 8,000 square miles. The reservoir is a series of sandstones and shales, from 1,000 to 1,200 feet in thickness, called by geologists the Waverly group. It is a sea-coast rock, in which the prints of seaweeds and the fossil remains of enormous marine growths are found, and is saturated, sponge-like, with the brine. Presumably centuries ago the waves of a pre-adamite ocean broke upon that shore and impregnated it with its saline riches. The wells range from 900 to 2,000 feet in depth, the brine is easily pumped, and the yield varies from 12 to 20 gallons per minute. A single well has yielded 26,000 barrels in a manufacturing season of eight months, and the annual product of some companies has reached 80,000 barrels. The price of salt has varied since its manufacture began in Michigan from \$1.85 to 75 cents per barrel; the average for 1881 was 83 2-3 cents.

New Incorporations.

The Home Manufacturing Company; organized at Lewiston, Jan. 18; capital stock \$100,000; paid in \$300; par value of shares \$100; purposes, manufacturing cotton and woolen goods; President, David Cowan; Treasurer, T. E. Eustis.

The Portland, Bangor, Mount Desert and Machias Steamboat Company, Portland, Jan. 18; capital stock \$125,000; paid in \$300; purposes, carrying freight and passengers from port to port in steam or sailing vessels; President, W. F. Milliken; Treasurer, Geo. L. Day.

The Suffolk Drift Mining Company, Saco, Jan. 27; capital stock \$400,000, all paid up; purposes, mining and all things incident thereto; President, W. Scott Fitz, Boston, Treasurer, J. P. Lyman, Boston.

The Limited Live Stock Express Company, Portland, Jan. 25; capital stock

\$200,000; paid in \$500; purposes, manufacturing cars, etc., for transporting live stock; President, Addi J. Lee, Boston; Treasurer, Wm. H. Nichols, Boston.

The Day Sewed Shoe Company, Portland, Jan. 26; capital stock \$100,000; paid in \$45; purposes, manufacture of patent lasts, boots and shoes, etc., under Geo. W. Day's patents; President, Chas. A. Grinnell, Boston; T. L. Sprague, Treasurer.

The White Cliff Mining Company, Belfast, Jan. 30; capital stock \$500,000; paid in \$400,000; purposes, mining, and all business incident thereto; President, S. A. Howes, Treasurer, Asa A. Howes, both of Belfast.

The Mail Publishing Company, Portland, Jan. 31; capital stock \$50,000; paid in \$1,300; par value of shares \$2.50; purposes, printing and publishing newspapers, periodicals, pamphlets, etc. President, — McAllister; Treasurer, Thomas A. Byrne.

The Penobscot Chemical Fibre Company, Portland, Feb. 1; capital stock \$200,000; nothing paid in; purposes, to carry on the business of manufacturing chemical fibre from wood, etc.; President, Clarence M. Reed, Boston; Treasurer, Garret Schenck, Newton.

The Pattle Governor Company, Portland, Feb. 1; capital stock \$50,000; nothing paid in; purposes, manufacturing the Pattle Steam Engine Governor, etc.; President, Clarence M. Reed, Boston; Treasurer, J. Mortimer Goldsmith, Boston.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, FEB. 1, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Anhoue	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Atlantic L. S.	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Atlas	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Blue Hill Copper	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Brunswick	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Calumet & Hecla	235	240	235	240	235	240	235	240	235	240	235	240
Catalpa	55	60	55	60	55	60	55	60	55	60	55	60
Central	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Copper Falls	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Contentment	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Douglas	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Dana	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Duncan Silver	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Empire	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Franklin	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Harshaw	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Huron	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Hanover	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Humboldt	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
International	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
National	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Oscoda	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Pewabic	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Phoenix	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Pontiac	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Quincy	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Ridge	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Silver Islet	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Star	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Sullivan	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2

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SPECIAL NOTICE

— TO —

Manufacturers,
Merchants,
Miners, and
Capitalists.

THE MAINE MINING JOURNAL, hitherto devoted mainly to the mining interests of the New England States and Provinces, will in the future introduce other departments covering the

Railroad, Manufacturing, and such other INDUSTRIAL INTERESTS as may assist in the developing and building up of the State of Maine and Provinces.

The natural advantages of this section as a manufacturing center are not excelled by any other district in the country. It has most

Magnificent Water Powers, and easy communication by water and rail with the principal markets of the world.

THE MINING JOURNAL will lend its aid toward the development of these vast and varied resources, and will endeavor to furnish fresh and reliable information relating to the manufacture of

Cotton and Woolen Goods,
Boots and Shoes. Canned Goods,
Bricks, Lumber, Paper, Etc.
the Quarrying of

Granite, Marble, Limestone,
and the Mining of

Gold, Silver, Copper, Tin, Lead,
Iron, Etc.;

and it will be our aim to bring the merits and advantages of these various enterprises to the attention of capitalists.

If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

Agents wanted. For terms, address
THE MAINE MINING JOURNAL,
BANGOR, MAINE.

ASSESSMENT NOTICE.

OFFICE OF THE

TWIN LEAD MINING and SMELTING CO.
OF MAINE.

4 MAIN STREET,
BANGOR, Dec. 26, 1881.

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, January 14th, 1882.

Any stock upon which the assessment shall remain unpaid on the 13th day of February, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates, that payment may be endorsed thereon.

By order of the Board of Directors,
JOHN R. MASON, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Benjamin Franklin Silver Mining Company,
OF FRANKLIN, ME.

HANCOCK, Jan. 16, 1882.

Notice is hereby given that an assessment of two and one-half cents has been levied by the Directors upon each and every share of the capital stock of the Benjamin Franklin Silver Mining Company, and the same is made payable February 1, 1882, to the Treasurer at his office in Hancock, Maine.

The stock will be delinquent March 1, 1882. The transfer books will be closed January 31, 1882, after which date no stock will be transferred until the assessment upon it has been paid.

Stockholders are requested to send in their certificates to be marked assessment paid.

By order of the Board of Directors,
T. J. HODGKINS, Treasurer.

Favorite Mining Company

SECRETARY'S OFFICE.

BLUE HILL, ME., Jan. 25, 1882.

The Directors have decided to levy an assessment of FIVE CENTS a share on the capital stock of this company, payable by stockholders of record at the close of business, February 10th, 1882.

Notice is hereby given that after that date no stock will be transferred until the assessment thereon is paid.

By order of the board of directors.
H. A. TRIPP, Secretary.

MACHINERY FOR SALE

— BY —

C. J. HALL,

— AT —

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One very nice running, second hand STEAM ENGINE, 14x42 cylinder.

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Belfast, January 24, 1882.

Bucksport and Bangor R. R.

CHANGE OF TIME, Jan. 16, 1882.

Leave Bucksport,	5.30	A.M. Train leaves Bangor Mondays and	5.00
Arrive Bangor,	6.42	Thursdays at 11	6.05
Leave Bangor,	7.35	A.M., Tuesdays & 7.15	
Arrive Bucksport,	8.45	Fridays at 2 P.M. 8.25	

Train also leaves Bucksport on Tuesdays and Fridays at 10 A. M. On Wednesdays and Saturdays on arrival of Boston steamer.

The 5.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.

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Stage leaves Blue Hill at 12 M. to connect with 5 o'clock train for Bangor.

HILL, GOOGINS & CO.
Bucksport, December 1st, 1881.

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Fare from Bangor to Ellsworth,	\$1.50
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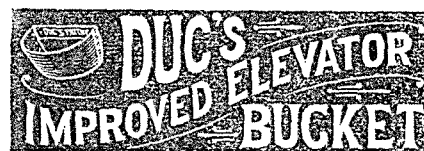
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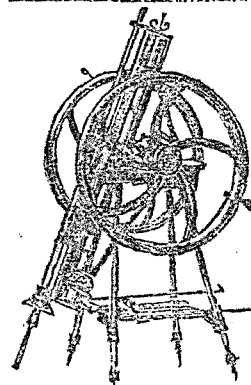
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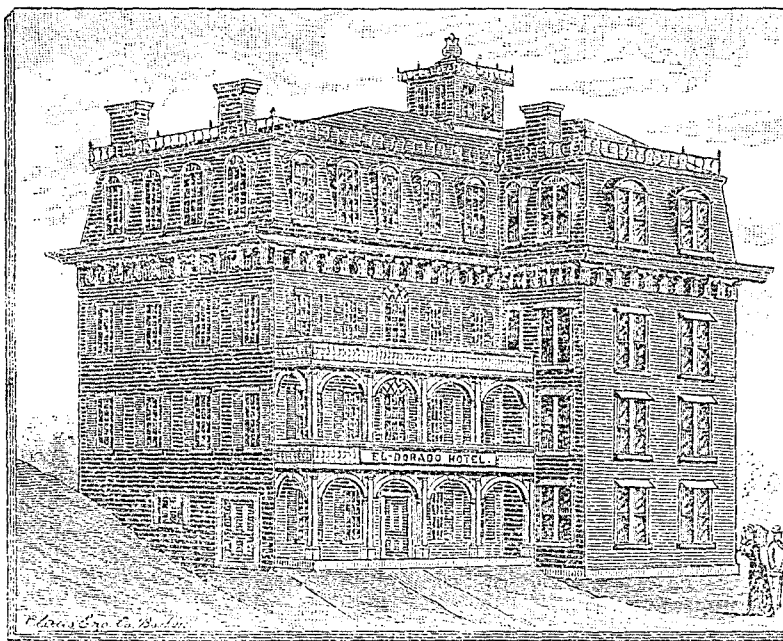
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5.—6.—III.

BANGOR, MAINE, FEBRUARY 10, 1882.

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President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

SUNBURST COPPER AND SILVER MINING CO.
Of Surry, Me. Incorporated, February, 1881.
Capital, \$500,000; Shares \$1.00, unassessable; Treasury Fund, 368,500 Shares.
President, Jas. W. Davis; Treasurer and Secretary, M. Donelan; Directors—Jas. W. Davis, M. Donelan, Roscoe Holmes, Guy Mullan, H. B. Mason, L. W. Hodgkins, P. Mullan.

Office—Ellsworth, Me.

P. MULLAN, Supt.

PLEASE ORDER YOUR Mining Stock Certificates,

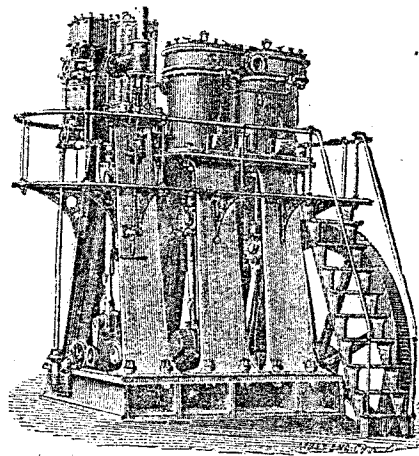
STOCK LEDGERS, SEALS, ETC., of the

MAINE MINING JOURNAL.

Samples can be seen at our office. Lowest prices and best of work warranted.

AIR COMPRESSORS ROCK DRILLS,

— AND — General Mining Machinery.



MANUFACTURED BY THE

Burleigh Rock Drill Co.,

FITCHBURG, MASS.

THE Mascot Mining Co

MINES AT GORHAM, N. H.

Office, Portland, Maine.

Capital \$500,000. Shares 100,000.

Stock Forever Unassessable.

DIRECTORS:

R. S. LAWRENCE, President, 23 Crawford House, Boston.

C. W. HOBBS, Secretary and Treasurer, Portland, Maine.

C. C. LANE, 7 Exchange Place, Boston.
CHAS. H. LEWIS, 4 Sears' Building, Boston.

FRANK H. WILLIAMS, 22 Water St., Boston.

CONSULTING GEOLOGIST:

PROF. J. H. HUNTINGTON, 35 Congress St., Boston.

ENGINEERS AND METALLURGISTS
BINNS, KIDNEY & HOLLIDAY, 33 Hawkins Street.

SUPERINTENDENT:

J. M. JOHNSON, Gorham, N. H.

FINANCIAL AGENTS:

F. H. WILLIAMS & CO., 22 Water St.

ORES—Argentiferous Galena and Copper. PRES-
ENT OUTPUT—Six tons daily. VALUE PER TON
—Seventy-five dollars. COST OF REDUCTION, in-
cluding freight, smelting, separation and refining—
Twenty-seven dollars per ton.
Forty miners, and ten blacksmiths, carpenters, team-
sters, etc., employed. The September development
work will ensure an October output of twenty tons
daily.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Douglass Copper Company,

— OF —

BLUE HILL, MAINE.

12 West Market Square, Bangor, Me.

Bangor, Feb. 10, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, and pursuant to article 5 of the By-Laws, an assessment of 25 cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, March 7th, 1882, by stockholders of record at the close of business, March 7, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 7th day of April, 1882, will be delinquent, and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient, to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold.

By order of the Board of Directors,
FRANK H. WILLIAMS, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Hercules Copper Company,

OF PENOBSCOT, ME.

135 Middle Street, Portland, Maine.

Portland, Me., Feb. 7, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, Feb. 20th, 1882, by stockholders of record at the close of business, February 15th, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 25th day of March, 1882, will be delinquent and will be advertised for sale at public auction and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale will be sold.

The stock of this Company will be exchanged, share for share, for the stock and club receipts of the Hercules Mining Co.

By order of Board of Directors,
JOHN N. LORD, Treasurer.

Favorite Mining Company

SECRETARY'S OFFICE.

Blue Hill, Me., Jan. 25, 1882.

The Directors have decided to levy an assessment of FIVE CENTS a share on the capital stock of this company, payable by stockholders of record at the close of business, February 10th, 1882.

Notice is hereby given that after that date no stock will be transferred until the assessment thereon is paid.

By order of the board of directors.

H. A. TRIPP, Secretary.

ANNUAL MEETING.

Young Hecla Mining and Smelting Co.

The annual meeting of the Young Hecla Mining and Smelting Co. will be held at the office of Wiggins & Williams, No. 12 West Market Square, Bangor, Maine, on Thursday, March 9th, 1882, at 3 o'clock P. M.
WM. FRANKLIN SEAVEY, Secretary.

DIRIGO SLATE QUARRY,

AT AUCTION.

We shall sell on Friday, March 3d, at 2 o'clock P. M. at the office of F. O. Bailey & Co., 18 Exchange St., Portland, Me., the Dirigo Slate Quarry, situated in the town of Monson, together with all buildings, fixtures, improvements, tools, etc. For particulars of sale etc., apply to

F. O. BAILEY & CO.,
Auctioneers.

JOS. D. TAYLOR, } Assignees.
WM. B. TOBEY, }

MACHINERY FOR SALE

— BY —

C. J. HALL,

— AT —

Belfast Foundry.

One very nice running, second hand STEAM ENGINE, 14x42 cylinder.
One No. 4 BLAKE PUMP; been used six months.
New Granite Polishing Machinery of all kinds.
C. J. HALL.

Belfast, January 24, 1882.

January Statement of the Treasurer

— OF THE —

Bangor and Blue Hill Falls Mining Co.

I, E. C. Smart, Treasurer of the Bangor and Blue Hill Falls Mining Company, agreeably to the requirements of sec. 5, chap. 48, Revised Statutes of Maine, on oath declare, that the capital consists of twenty acres of mineral rights and five acres in fee simple, which is not of much value except for mining purposes. Last valuation being \$150 00; mineral rights not taxable. Organized unassessable, and about 15,000 shares remain in the treasury. The amount due from the company is about \$450. The amount of cash expended for explorations, shaft house, whim, blacksmith shop and tools is \$5,419.72 as near as can be seen at present.
E. C. SMART.

STATE OF MAINE.

PENOBSCOT ss. January 30, 1882.
Then personally appeared E. C. Smart, Treasurer of the Bangor and Blue Hill Falls Mining Company, and subscribed and made oath to the truth of the above statement. Before me,
W. J. WEBB,
Justice of the Peace.

SEMI-ANNUAL STATEMENT

— OF THE —

BENJAMIN FRANKLIN SILVER MINING CO.,

FORMERLY THE

Franklin Silver Mining Company.

JANUARY 2, 1882.

Capital Stock.....\$500,000 00
Stock in Treasury at par value..... 250,000 00
Estimated amount of debts outstanding.... 975 00
Amount of capital invested in buildings,
machinery, and fixtures..... 1,050 00

T. J. HODGKINS, Treasurer.

STATE OF MAINE.

County of Hancock, ss.

Hancock, February 6th, 1882.

Then personally appeared the above-named T. J. Hodgkins, Treasurer of the Benjamin Franklin Silver Mining Company, and made oath to the truth of the foregoing statement by him signed, to the best of his knowledge and belief. Before me,

O. W. YOUNG, Justice of the Peace.

Delinquent Sale Notice.

Douglass Copper Company.

Location of principal place of business, Bangor, Maine.

Location of mine, Blue Hill, Maine.

NOTICE There are delinquent upon the following described stock, on account of assessment No. 1, payable November 30, 1881, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. certificate.	No. shares.	Am't.
Wm. D. Swazey, treasurer, trustee	596	1000	\$1000
Wm. D. Swazey, treasurer, trustee	520	1000	1000
Wm. D. Swazey, treasurer, trustee	531	1000	1000
Wm. D. Swazey, treasurer, trustee	532	1000	1000
Wm. D. Swazey, treasurer, trustee	533	1000	1000
Wm. D. Swazey, treasurer, trustee	574	500	500
Wm. D. Swazey, treasurer, trustee	553	500	500
Wm. D. Swazey, treasurer, trustee	556	500	500
Wm. D. Swazey, treasurer, trustee	537	240	240

And in accordance with law and an order of the Board of Directors, so many shares of each parcel of such stock as may be necessary will be sold at public auction, at the Treasurer's office, in Bangor, Me., on FRIDAY, the twenty-fourth day of February, 1882, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

FRANK H. WILLIAMS, Treasurer.
Office, 12 West Market Square, Bangor, Me.

ASSESSMENT NOTICE.

OFFICE OF THE

TWIN LEAD MINING and SMELTING CO.

OF MAINE.

4 MAIN STREET, }
Bangor, Dec. 26, 1881. }

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, January 14th, 1882.

Any stock upon which the assessment shall remain unpaid on the 15th day of February, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates, that payment may be endorsed thereon.

By order of the Board of Directors,
JOHN R. MASON, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Benjamin Franklin Silver Mining Company,

OF FRANKLIN, ME.

Hancock, Jan. 16, 1882.

Notice is hereby given that an assessment of two and one-half cents has been levied by the Directors upon each and every share of the capital stock of the Benjamin Franklin Silver Mining Company, and the same is made payable February 1, 1882, to the Treasurer at his office in Hancock, Maine.

The stock will be delinquent March 2, 1882.

The transfer books will be closed January 31, 1882, after which date no stock will be transferred until the assessment upon it has been paid.

Stockholders are requested to send in their certificates to be marked assessment paid.

By order of the Board of Directors.

T. J. HODGKINS, Treasurer.

Copper, Zinc and Lead Ores**WANTED.**

Highest market prices paid. First-class, responsible buyers. Advances made on cargoes. Send analyses, amount per month, samples (25 or 50 lbs.) Address,
B. BARNES, JR., Broker,
39 Exchange Street, Portland, Me.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

Subscription price, \$2.50 per year, or \$2.00 when paid in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, FEBRUARY 10, 1882.

The annual meeting of the American Institute of Mining Engineers will open at Washington, D. C., on Tuesday, February 21.

THE MAINE MINING JOURNAL says that among the minerals found in Rockland and Camden are Hematite, Tremolite, Thomsonite, Limonite, etc., etc. It should have added Rumtite, Outlatatnitte and Drunkenfite; there are more of the latter three in Camden than there are of the former.—[Camden Herald.]

The Directors of the Douglass Copper Company held a meeting in Boston on Tuesday and levied an assessment of 25 cents per share upon the capital stock of the corporation. This assessment will be payable by stockholders of record on March 7th and stock on which it remains unpaid April 7th will be delinquent.

Sales of Maine mining shares at the Boston Mining and Stock Exchange for the week ending on Wednesday last aggregated 53,050 shares, as follows: 37,300 Milton at prices ranging from 16 to 20c, closing at 18c; 10,800 Deer Isle at 24 to 29c, closing at 26c; 1,200 Twin Lead at 21 to 20c; 1,200 Edgemoggin at 8c; 1,050 Mammoth at 10 to 12c; 700 Douglass at 50, 55, 62 1-2 and 76c; 400 Sullivan at \$2, \$1 5-8 and \$1 7-8; 300 Blue Hill at 50c; 100 Copperopolis at 12c. Sales of Maine stocks at the Old Board were confined to 500 Blue Hill at 50c and 228 Sullivan at \$1 1-2 and \$1 5-8.

The Maine mines are not making much noise at present, but a vast amount of excellent work is being accomplished in their systematic development. A most gratifying feature is the fact that as the shafts acquire depth the ore bodies are found to increase in size and their contents in richness. In all the mining operations which have been carried on in Maine we are not aware of an instance in which the vein has "petered out." At a depth of 350 feet in the Sullivan

Mine the ledge maintains its width and general characteristics, while the ore is richer than ever. What more is wanted to demonstrate the "true fissure" character of these mineral veins? Those who are led by the condition of the stock market to think that mining in Maine is a thing of the past will get sadly left.

We have often given expression to views similar to those contained in the following, from the Colorado Miner: "There is an opinion more or less prevalent in mining camps that a mention of a mine is necessarily a 'puff.' If by this is meant an attempt to pander to any one's vanity, or to any one's interest as opposed to the public good and a veracious description of our mineral wealth, the Miner disclaims any such action. Nothing can be more erroneous than a supposition that a favorable description of a mining property indicates self-interest on our part. We would much rather write up a favorable report than otherwise, if the facts in the case justify it, but beyond this it is a matter of the utmost indifference to us. To fully represent the mining industry, irrespective of individual complications, is our aim, though we confess our path is not entirely clear of obstacles. The word 'puff' does not suit us as applied to descriptions of our mines. It is suggestive of partiality and insinuates exaggeration. We are laboring, not for the good of one, but all (including ourself—of course) and aim to give mining news—not 'puffs.'"

From the evidence already brought before the coroner's jury at Fairfield, in the case of the recent boiler explosion which resulted in the loss of three lives, dangerous injuries to four men and destruction of property to the amount of ten or twelve thousand dollars, there can be but one opinion as to the criminal negligence of some one in permitting the use of boilers long known, or at least suspected, to be unsafe. We await anxiously the additional evidence to be submitted on Monday next, to see if there can be any mitigating circumstances not at present known to the public. It is hard to believe that a corporation composed of wealthy and influential citizens should allow their pecunious dispositions to render them so utterly regardless of human life as seems to have been the case in this instance. We wonder how many more rotten concerns, ready to blow up without a moment's warning, exist among the many manufacturing establishments in our cities and towns. Probably we shall never know until they go up. The only practical test of a boiler's safety seems to be continued use. If it explodes it is unsafe; if not, it is safe till it does.

The habits and customs of the Comstockers have always been an interesting study and their manner of solving the problem of deep mining—overcoming the almost insurmountable obstacles of foul air, hot water, etc., etc.,—by the simple method known as the "assessment plan," have at once excited the surprise and admiration of the civilized world. A fresh illustration of the queer way they have of doing things on the Comstock comes to us through a Nevada exchange. Mr. Mahony, the county clerk, "appropriated" \$1000 official moneys in his custody. Mr. Mahony was unable to make the deficit good. So his bondsmen got to

gether, advanced the money, and made arrangements with the deputy clerk by which he (the deputy) is to take entire charge of the office, Mr. Mahony remaining clerk only in name, but drawing his salary all the time, a portion of which is to go each month towards reimbursing his bondsmen. When the sureties are repaid, the bondsmen will withdraw from the bond and Mr. Mahony will be compelled to resign. Mr. Mahony is to perform no duties, but his salary is to go on until the debt is paid!

The Rockland Courier-Gazette places the railroad question, in connection with the proposed lease of the Knox & Lincoln to the Maine Central, in so clear a light that no resident of the towns which are so vitally interested should have any hesitancy about voting in favor of accepting the proposition. The bonded debt of the road is \$2,400,000, and upon the interest of this its net earnings have paid from 1 3-4 to 2 1-2 per cent. for the past ten years, the balance coming out of the pockets of the tax payers. During the past five years the road has averaged 2 per cent.; last year only a trifle over 1 3-4 per cent. The Maine Central's offer of \$60,000 per year for twenty years is a trifle better than 2 1-2 per cent. It is a matter of doubt if the business of the road can in the future net more than its present earnings, while as the road bed, bridges, rails and rolling stock, ferry-boats and slips, grow older, the amount expended for repairs must proportionately increase from year to year. The lease will insure a higher rate of interest, a much better road, equal or better transportation facilities and immunity from liability in case of disaster. It should be accepted.

By announcement elsewhere it will be seen that the Douglass Copper Company have levied an assessment of 25 cents per share. The levying of this second assessment by the above corporation will not be a surprise to the public as the necessity for such action was fore-shadowed in a previous issue of the MINING JOURNAL. While it was anticipated that the first assessment of \$1 per share would be sufficient to pay up the mortgage, free the company from its floating debt and place a fair surplus in the treasury, it is now found that the liabilities were considerably greater than were generally supposed and that the first assessment little more than liquidated the outstanding bills up to the time the new management assumed control. The position we have taken in regard to the past developments at the Douglass is well understood. In order to place this representative mine in its true light before the public and explain why this great mining property has not ere this become largely remunerative we have been obliged to speak somewhat plainly of its past management. It has not been a pleasant task to allude to mistakes made by gentlemen with whom we have the most friendly relations and for whom we entertain the highest respect, but our duty has been clear enough in this direction and we think our efforts have generally been understood and appreciated. The mine is now making as brilliant a showing of ore as ever in the past and we look to the future with high hopes. The ability of the new Manager, Mr. George Thompson, is universally acknowledged and under his charge we expect to see the Douglass take its true position among the leading producing mines of the country.

JEALOUSY.

The Belfast Age remarks that "the copper mines of Michigan throw our Maine mines into the shade." And well they may. Previous to 1850 more than sixteen millions of dollars had been expended in their development!—(Maine Mining Journal.)

And previous to that time more than sixteen millions of dollars had been paid in dividends by one Michigan mining company alone. We venture to say the mines of Michigan will continue to throw the Maine mines into the shade after they have expended sixteen times sixteen millions of dollars in their development, if their managers are able to extract that much money from the pockets of their shareholders.—(Northwestern Mining Journal.)

We have frequently alluded to the senseless attacks made by alleged newspapers published in the Lake Superior copper region upon any and all new mining districts which show indications of adding materially to the world's supply of copper. The mere announcement of a copper discovery in Maine, Arizona, or any other portion of the United States is sufficient to work these fractious sheets up to the highest pitch of excitement; producing an effect precisely similar to that of waving a red flag before a Texan steer. All of which would seem to indicate that the Lake Superiorites are beginning to appreciate the insecurity of the position which they claim is now held by their district, "the leading and most profitable copper producing region of the world." While admitting the productiveness of many of the Lake Superior mines, and while we have often referred to them (particularly the Calumet and Hecla) with pride as notable examples of American resources and enterprise, the fact is that the history of the development of the Michigan copper region and the present condition of the mines will scarcely warrant a great amount of brag and bluster on the part of the promoters. The truth of this assertion is found in the statement, to which we some time since gave publication, that, with the single exception of the Calumet and Hecla, the assessments on the Lake Superior copper mines exceed by several millions of dollars the dividends paid, to say nothing of the vast sums expended in attempting to develop private enterprises which have proven unremunerative. The attempt to build up the interests of one section by pulling down and decrying those of another has never yet been successful, and we do not believe this instance will prove an exception. We are glad to be able to append a few pertinent remarks from the Ishpeming Agitator, one of the ablest journals devoted to the iron industries of Michigan.

The Iron Agitator has noticed for some time past that the press of the copper district, especially that part of it published at Houghton, this state, has had a bad habit of sneering down upon the reported deposits of copper found in Maine, Arizona, Nevada and other parts of the United States, and to an uninterested party it would appear that the publishers of these journals were prompted by a feeling of jealousy to say harsh things of their far-away contemporaries; or else they feared an over-production of this mineral might detract from the ready market it now enjoys. Are these copper-producing individuals of Lake Superior of the opinion that their's are the only mines that are going to furnish the raw material of this nature for the whole of the western hemisphere and a portion of the eastern, and that they can produce a sufficient quantity of it to keep pace with the demand? We trust their feelings of jealousy have not become so deeply rooted as to lead them to think they are equal to any such task. If those in that section, especially the gentleman at Houghton, will look back over a space of fifteen years and dive deep into the murky depths of his memory, he will find that there was a time when even the copper mines of Lake Superior were hard-pressed for capital with which to develop them. There has not always ex-

isted a Calumet and Hecla mine. We distinctly remember the time when what is now the "biggest copper mine in the world" did not assume the title it now has. Did not it take over a million of dollars to open up the Calumet Mine ere it was yet consolidated with her sister Hecla? Is it not a fact that the property was considered worthless by the public generally, and especially in that very same district, and shares of stock went begging for a purchaser? Such was indeed the case. And we could speak similarly of other mines in that same field, but refer to the Calumet & Hecla, because it is the largest copper mine being worked in the world at the present time. Give the new enterprises a chance; nor by abusive epithets, or unmanually, ungenerous slurs, attempt to dissuade energetic men from an honorable and beneficial (to the whole country) enterprise. It is ill-becoming, and believe us, will certainly not tend to keep capital from seeking other points for investment. The Agitator has for some time desisted from speaking of the above, thinking there might be a sort of reaction in the brain of the copper country editor, but finding his case growing more and more desperate we could no longer desist from "saying our say" in the matter and repeating the opinions of the best men of the country.

COPPER—ITS VARIOUS USES.

[The Stockholder.]

[CONTINUED FROM LAST EDITION.]

In addition to its electrical use, in the future, with the increase of wealth, culture and taste, copper, or bronze, its product, will be more and more employed for domestic, industrial and artistic purposes.

Fortunately Nature has been most lavish in her gift of this metal to all mankind. Copper ore is found in workable quantities in almost every quarter of our globe, and notably in largest supply in those countries destined, by climatic conditions, to support the most dense, intelligent, and industrious population, just as we find coal, iron and lead stored bounteously under like conditions.

But few copper mines are opened as yet in Asia. She does not furnish her own supply of this metal. Doubtless good mines will be found in Siberia, Corea and British India.

Africa exports some copper ore to Swansea, from the southern part, one good mine of 30 per cent. ore having been opened. A small amount of ore is also obtained in Algiers.

In Europe, England has been the largest producer of copper, chiefly in Cornwall, with a small amount from Ireland. But many of the Cornwall mines are already exhausted, and soon England must look for her entire supply to her colonies in Australia and to other countries.

Passing from the Eastern to the Western world, we find the largest, richest, and best-developed copper fields in Chili, which country and nation is to South America what the United States is to North America; people by the best-informed, most energetic and industrious inhabitants, surely destined to be the governing nation of that continent.

Chili has for years, and now does, produce more metallic copper than any other country or nation. She can, and doubtless will, largely increase her output, and do her full share to help meet the present extraordinary demand.

The rest of the South American States are badly governed, and peopled by a lazy and inert population; so that while Bolivia, Peru, Ecuador and Venezuela have rich copper deposits, nothing in the way of output can be expected from them for years to come.

Brazil is but a small producer of copper at present, and while good mines will doubtless be found there, her present population will prevent their immediate discovery and development.

Of the West India Islands, Cuba is the largest producer, in 1879 her product being about 2,300 tons. San Domingo

has fair copper mines, but not much worked at present.

The Central American States, while possessing good mines, are doing nothing toward development, both climate and population being opposed.

Mexico, when her railroads are completed, and enough live Yankees, or other energetic people, emigrate there to open her copper beds, will become a large producer of copper, as she will of iron, and the noble metals, especially silver. But this will be some years hence.

The peninsula of California has several good copper deposits, but it is a difficult and inconvenient country to mine in, for many reasons patent to all, its isolation, want of access to supplies, and industrial facilities, being foremost.

The Encyclopedia Britannica for 1879 gives the maximum production of metallic copper throughout the world at 130,000 tons, and Professor Davies, for the same year, makes the following distribution of the output:

	Tons.
Japan	3,000
Russia	6,500
Spain	6,000
France	2,000
Austria	2,000
German Empire	2,000
Norway and Sweden	2,000
Cuba and West Indies, about	2,500
Chili, about	38,000
Australia, about	25,000
United States, about	25,000
Leaving for England and all other countries	34,000
Total	130,000

During the year 1881 the output in the United States was increased at least 10,000 tons. But it is a question which the present sources of information will not solve, whether the war between Chili and Peru, and the exhaustion of mines in Cornwall, have not diminished the world's supply quite as much as the gain in this country will amount to. The question of most importance is, it would seem, whether the sources of supply will equal the increased demand for the next few years, or, until this electrical lighting plant is everywhere placed and supplied, or whether we should look for a further advance of price. The latter is the more reasonable conclusion to draw.

From the table of production already given, we need not hope to draw a supply from any other country than our own. Europe will need all the rest of the world's output. So that our Solons at Washington, in their amendment of the tariff, can at once remove all duties from copper, for as will be shown further on we shall most likely be large exporters of this metal in the near future.

[TO BE CONTINUED.]

Personals.

SUPR. DUFF, of the Twin Lead and Mammoth, is in the city.

MR. C. S. KING, of the Southern Utah Times, is visiting Boston.

SUPR. MOYLE, of the Blue Hill, passed through Bangor Saturday evening on his way to Boston.

MESSRS. FRANK H. WILLIAMS and JOHN S. JENNESS left Bangor, Wednesday afternoon, on a trip to Cherryfield and Blue Hill.

We regret to learn of the very dangerous sickness of Mr. J. F. MOSES, the popular landlord of the Robinson House at Bucksport.

SUPR. DUNTON, of the North Castine, called in a few days since and gave a very encouraging report in regard to operations at the mine.

CHAS. SMALL, the largest man in the Dominion, died at Grand Menan on the 26th. He weighed at the time of his death fully 500 pounds.

HON. WM. L. PUTNAM, of Portland, has been nominated Associate Justice of the Supreme Judicial Court by Governor Plaisted, in place of Judge Libby whose term expires in April.

PROF. W. F. STEWART has arrived in New England from Washington and is now stopping at the Crawford House, Boston. In the spring he will probably make a trip to Newfoundland.

HENRY A. FOSTER, formerly a clerk in the Little Chief office of this city, is now the owner of a productive gold mine in Nova Scotia. He is spending a few days in New York receiving the congratulations of his friends.—[Daily American Exchange.

ALEXANDER L. HOLLEY, who introduced the Bessemer steel process into this country, and who was a son of Judge Holley, of Connecticut, died in Brooklyn, Sunday, aged 50. The current issue of the Engineering and Mining Journal contains a fine portrait of the deceased.

MR. DANIEL SULLIVAN, inventor and manufacturer of the compound tubular boiler, formerly of this city and now resident at Central Falls, R. I., received a gold medal for his exhibit at the Atlanta Exposition, according to the Boston Journal of Commerce. As there were but three gold medals given, the merit of Mr. Sullivan's boilers will be appreciated.

PERCY WARREN, M. D., left Bangor during the present week for Mexico, where he proposes to locate and practice his profession. The Doctor has been practicing in Blue Hill over a year and had acquired already quite a large patronage. On his way to Mexico, he will make a stop of several weeks in New York and New Orleans. Prior to his departure, the MINING JOURNAL received from him a pleasant call.

Dips, Spurs and Angles.

THE AESTHETIC BREAKER.

A weary and worn young man,
A busted and broke young man,
Who thinks to his sorrow
There's no hope for the morrow
For stock that's no good, young man.

—[S. F. Exchange.

—The Hailey (Wood River) Times announces that a Mrs. Jones, of that city, has just fallen heir to an estate in England valued at £250,000.

—Arizona wants immigrants that can handle the pick. Boston can spare her some that can handle the (tooth) pick in front of hotels.—[Commercial Bulletin.

—They have discovered another gold mine in Connecticut. Connecticut gold resembles California gold very much as Connecticut cigars resemble tobacco.—[Ex.

—The Mexican tarantula which bit Boss Shepard made a mistake in the man. It was dead in half an hour, while Boss took an extra drink and didn't even have a headache.—[Arizona Citizen.

—We have been asked several times for our portrait for publication, but, so far, have evaded the issue. It is bad enough to look like a hat-rack running to a fire, without illustrating our sorrow in the papers.—[Bill Nye in Laramie Boomerang.

—A new celluloid, made by treating potatoes with sulphuric acid, is said to make pipes equal to meerschaum, and is employed for that purpose in France. Under heavy press-

ure the material becomes so hard that billiard balls may be manufactured from it.

—The New York Produce Exchange has organized a Glee Club. They will probably sing "Tis Wheat to be Remembered" as an opening chorus; followed by such selections as "Ryes and Shine," "Peas be Still," "The Prairie Flour," and closing with a vigorous cadenza of wild western oats.—[Ex.

—The editor of the Ontonagon Herald accuses us of lack of brains. Well, we don't claim to have the head gear of a Daniel Webster and admit that a little more knowledge would do us no harm, but we would prefer to have it so placed that, unlike the editor of the Ontonagon sheet, we would not sit upon it at meal time.—[Ishpeming (Mich.) Iron Agitator.

—Nye county, Nevada, is the largest county in the United States, covering 24,000 square miles. San Bernardino county, California, is next largest, with an area of 23,000 miles. California has four other counties that are each as large as Massachusetts, three that are larger than Connecticut, and fifteen others that are larger than Delaware. The smallest county in the United States is that of New York, and it has the largest population.

—Accidental rich finds of gold still occur in California. Some men who were recently walking along the road on Gray's Flat, in Eldorado county, noticed a piece of quartz which had been crushed by a wagon running over it. The specimen was found to contain considerable gold, and the party making further explorations came upon a "pocket" from which they took out in one day what was estimated at from \$11,000 to \$13,000 worth of gold.

—There is no more dainty sight in the land than a young and pretty Boston girl seated in æsthetic attitude at the table, in dinner toilet, head languidly reclining to one side, lips ripe and red as cranberries, eyes aglow with anticipations and bright as diamonds, fingers of waxy morbidezza, and holding a crisp brown smelt by the tail, resting it just a moment on the threshold of her divine lips, while a miniature cascade of transparent salivary secretion gushes out at the corners like dew-drops from an opening rosebud.—[Louisville Courier-Journal.

—The Virginia Enterprise publishes the following concerning a character well known in Western Nevada: "Mother Dildine, the 'Nevada Hermitess,' left last Saturday to spend the remainder of her days with her relatives in Boston. It appears that her true name is Nauey Sweet. For some ten years she has lived alone in a cabin on the edge of the desert, a few miles to the east of this city, breeding goats like a female Crusoe. She had a flock of over 200 of these animals when she concluded to give up her solitary life. Her herd (disposed of to the butchers) brought her quite a snug little sum of money. It is said that she married a man named Sweet years ago. Shortly after the vows were exchanged he left her, after having squandered considerable money his wife possessed. This experience so disgusted her that she resolved to retire to the desert, and live alone the rest of her days. Friends in the East, at last finding out where she was, finally induced her to believe that there are still some persons in the world who have some heart. She is said to be well educated and exceedingly sensitive".

—At the annual meeting of the Maine Press Association, held in Portland last week, the following officers were elected: President, Wm. B. Lapham, Maine Farmer, Augusta. Vice Presidents, J. P. Warren, Christian Mirror, Portland; W. S. Gilman, Pioneer, Houlton; Howard Owen, Maine Farmer, Augusta. Secretary, Joseph Wood, Mount Desert Herald, Bar Harbor. Treasurer, Joseph A. Homan, Maine Farmer, Augusta. Corresponding Secretary, S. L. Miller, News, Waldoboro. Executive Committee, H. W. Richardson, Advertiser, Portland; G. H. Watkins, Democrat, Paris; J. F. Upton, Times, Bath.

The Bangor Stone Ware Co.'s buildings, in the valley were completed in September, 1880, and are owned and managed by A. Person and O. Soderberg who have had a lifelong experience in the business. They manufacture everything in their line from large covered churns down to small articles of fancy pressed ware comprising a vast amount of articles combining utility and beauty. They receive their clay material from South Amboy, N. J., and their sand from Long Island, N. Y. The business requires skilled workmen of artistic talent and of such they have eight in their employ. There are good locations for various other industries in the valley which we hope soon to see occupied.

The supplement presented to our subscribers with this issue contains a very correct railroad map of Maine and the Maritime Provinces. It shows in well-defined lines all of the railroads completed and also several projected, including those to connect with and serve as feeders to the Maine Central, the most important of which is the lately surveyed route from Dexter, in Penobscot county, to the Aroostook Valley. Although yet in the prime of life, we can well remember when there were only twelve miles of railroad in this State east of Portland. Since then there have been built nearly one thousand miles of railroad, and which is now in successful operation. The actual number of miles of road in Maine is 1,043, as seen by the following list:

Grand Trunk and leased lines.....	90	ms.
Maine Central " ".....	355	"
European & North American.....	114	"
Bangor & Piscataquis.....	62	"
Knox & Lincoln.....	49	"
Bucksport & Bangor.....	18	"
Boston & Maine, including Old Orchard Branch.....	47	"
Portland & Ogdensburg.....	51	"
Portland & Rochester.....	49	"
Eastern, including P. S. & P. and P., G. F. & C. in Maine.....	55	"
Rumford Falls & Buckfield.....	29	"
St. Croix & Penobscot.....	22	"
Sandy River.....	18	"
Somerset.....	25	"
Whitneyville & Machiasport.....	8	"
Bangor & Karahdin Iron Works.....	18	"
Arroostook River.....	27	"
Houlton Branch.....	3	"
Old Orchard Junction.....	3	"

1043 ms.

If the advantages which these roads have afforded the people of this State have not served to increase our population, there is no doubt that they have prevented thousands from leaving the State to swell the western-bound tide. The increasing business over the trunk lines augurs well for the old Dirigo, and if we are yet behind some of our sister States in mileage, we should not be discouraged. A brighter day is dawning, and Aroostook will not much longer remain isolated from the outside world, but will, by the enterprise of the Maine Central on the one hand and the Canadian company from the north, on the other, be supplied with railroad facilities equal to the demand. Then will our county begin to develop more rapidly the immense agricultural wealth locked up in our virgin soil.

With increased railroad facilities will come manufacturing, the raw material for which is abundant in our forests. The Aroostook woods are full of lumber suitable for barrel staves, sugar boxes, last blocks, and all kinds of wooden ware. The projected roads will lead to the development of these mines of wealth, and cause the Aroostook to blossom like the rose.

MILTON.—The Bulletin reports good progress in the south level and winze of shaft No. 2. Are now cutting pump station and timbering winze in shaft No. 1, and will soon be ready to lower the pump and commence sinking again.

GOULDSBORO.—A meeting of the stockholders of the Gouldsboro Silver Mining Company has been called to be held in Ellsworth on Wednesday, Feb. 22d. The above named corporation having failed to hold its annual meeting on the appointed day, it will devolve upon the stockholders to elect a board of directors at this session.

STEWART.—The latest advices from Supt. Dunn are that everything is moving along satisfactorily and both shafts in good ore.

HERCULES.—Work is progressing steadily at the mine with very satisfactory results. At a meeting of the Directors in Portland, on Tuesday, an assessment of five cents per share was levied, payable Feb. 20th. The stock will be delinquent March 25th.

NORTH CASTLE.—Reports from this property continue to be of the most encouraging character. It will be remembered that the formation, through which the shaft has penetrated to a depth of 100 feet, has been so broken and distorted that no correct idea of the permanency and reliability of the mine could be found. The first important development occurred several weeks since when a smooth, perfectly well-defined wall was found. Later, the opposite wall was encountered, carrying, like the former, a fine clay seam, and the vein matter began to be interspersed with stringers and bunches of zinc blende and high grade copper sulphurets. Within a few days a considerable quantity of copper ore of an excellent grade has come in on the south side, the stringers throughout the vein are growing larger and more numerous, and all the indications point to the existence of a large body of ore at no great depth below the present workings.

A bar of gold weighing 125 ounces, worth \$2,500, taken from 40 tons of quartz, was taken to Halifax recently from the Rose Mine of Montague.

Mining licenses on Crown Lands in Queens county, New Brunswick, will be offered for sale at the Crown Land office, Fredericton, on March 1st.

The Maple Leaf learns that Messrs. Steadman & Bennett have refused an offer of \$10,000 for their copper mine on the Wilbur farm at New Horton. The same paper also hears that the New Ireland Gold and Silver Mine, a valuable mining property, is for sale.

ELM TREE SILVER MINING Co.—The Elm Tree Silver Mining Company was organized at Chatham, N. B., on Saturday last, with a capital stock of \$500,000 divided into shares of \$5 each par value, and the following list of officers: President, R. R. Call; Vice-President Wm. Muirhead, Jr.; Treasurer, W. A. Hickson; Secretary, R. A. Lawlor; Directors, R. R. Call, Wm. Muirhead, Jr., John Sadler, John Ellis, W. R. Payne, John J. Adams (New York) and W. A. Hickson. The Treasurer was authorized to sell 25,000 shares of the treasury stock, at not less

than \$2 per share, for the purpose of raising funds to develop and work the mine. The company's property, briefly described in our last issue, seems to be a most promising one, and we hope to see it vigorously and systematically developed. The Chatham World says the specimens of ore which have been assayed—the assays having been made by U. S. Government officials—have yielded from \$100 to \$250 in silver and lead to the ton. The only thing required to demonstrate the value of the property is to ascertain the extent of the deposit; this will be fully tested in the spring.

NOVA SCOTIA GOLD MINES.—The Machias Union prints the following extract from a private letter, dated at Sheet Harbor, N. S., Jan. 25: "The gold mining interests in this near vicinity have grown into importance. At Tangier, westerly from here twenty miles, the Satemo Gold Quartz Co., of New York, are having good results from their lodes. Their quartz mill works admirably. The Beaver Dam Mine, 15 miles north from here, operated by an English company, is preparing for extensive work. The Montague is paying well. The mine at 15-Mile Stream for years has paid large dividends. The Salmon River Gold Mine, about two hours drive east from here is a regular bonanza. Four persons made the company. They have a lode of 7 feet in thickness, and 8,000 feet in length. In a few weeks time they forwarded to the mint upwards of \$50,000. They have a water power mill, twenty stamps running night and day. They intend to put in two more batteries soon. The mine produces \$8,000 per month. Cost of running, \$2,500 per month. The mine will no doubt before long be worked up to three times the above amount."

The St. John Daily Sun calls attention to the sad state of the New Brunswick mining laws and regulations, and points to the good which might be accomplished by a Government Inspector of Mines who should collect and publish all facts about the occurrence of mineral veins, beds, or deposits in the Province. The Sun says: "There is very little reliable information to be had now about our mines and minerals, and this little is embodied in the report of the Geological Survey of Canada, among a mass of other facts and speculations through which a practical business man would hardly care to wade. We have besides the above a couple of reports by Professor Bailey, and one by Professor Hind, together with the old Gesner reports now out of print. We freely acknowledge the great benefit which the Geological Survey of Canada has conferred on the Dominion, but a geological survey is not a mineralogical one. It is certainly the duty of the Government to have all the facts relative to our mineral wealth collected and published in pamphlet form—not a very expensive matter—so that the public would know where to place their hands upon information so desirable."

Canadian Phosphates.

Mr. Henry G. Vennor, for a long time connected with the Geological Survey of Canada, has in an article in an Ottawa exchange furnished some interesting details concerning the phosphate deposits of that country.

There are only two sections yet discovered in which this valuable mineral is found in sufficient quantity to be remunerative. The first of these, and that first worked, is what may be termed the Perth and Rideau District, extending from the neighborhood of the town of Perth, Ontario, southwestward to Sydenham village, in Loughboro', to the rear of the city of Kingston. This area embraces the townships of North and South Elmsley, North and South Burgess, North and South Crosby, Bedford and Loughboro', in nearly all of which phosphate of lime occurs in greater or less quantity. The earliest discovery on record was made by Dr. Wilson, of Perth, upward of thirty years ago, at which time the appearance and character of the mineral were but imperfectly known. The specimens then discovered were shown to Dr. T. Sterry Hunt, who subsequently visited the location and explained to Dr. Wilson the true nature and uses of this economic. Since that period up to the present, the Perth and Rideau section has been very extensively worked over, but with varied success.

The second section, and that more recently discovered, is what may be appropriately termed the Ottawa County District, extending northward between the Gatineau and Aux Lièvres rivers from the shore of the Ottawa to a distance of about 70 or 80 miles. This area embraces the townships of Hull, Templeton, Buckingham, Portland, Wakefield, Masham, Low, Denholm, Bowman, Bigelow, Hineks, Aylwin, Wright, Northfield, Blake, Bouchette, Cameron, Wabasse, and a number of others still farther northward not yet examined. This, it will be perceived, is a very extensive and important area. It abounds in rich and large deposits of phosphate of lime, of which a number are worked at present with great success. The earliest

mining done here was commenced about ten years ago in the township of Buckingham, and close to the Aux Lièvres River; but numerous specimens of the mineral had been collected many years previous from other parts of the country. It is worthy of note here *en passant* that among the earliest locations opened was the lot yet known as the "Grant Lot," then the property of Dr. J. A. Grant, of Ottawa, but now owned and most successfully worked by the Buckingham Mining Company. This is now the largest and deepest working in this whole section, and the quality of the mineral is unsurpassed.

During these ten years, discoveries continued to be made, first in other parts of Buckingham Township and in the front part of Portland, immediately to the north of Buckingham, and still close to the Aux Lièvres River; next in the townships of Templeton and Hull, to the westward of Buckingham; and finally, and but recently, still farther up the Aux Lièvres River in Portland and Bowman, on the one side, and in Wakefield on the Gatineau River, on the other. It is in these localities that, up to the present, mining operations have been most extensively entered into by individuals and companies; but further deposits are now known to exist for a long distance up the Gatineau River, and in one or other of the townships already named.

The rocks in both of the phosphate sections named are similar. They consist of white crystalline limestones, with grains and lumps of serpentine, reddish-colored feldspathic rocks, dark green pyroxenites, quartzites, rust-colored quartz, and feldspar rock and gneiss abounding in garnets. There are also other varieties, but these are the most important and characteristic of the group. They are a portion of the old Laurentian system of rocks, or that crystalline and highly altered series which constitutes our great range of Laurentide Mountains, and which underlies the horizontally disposed sandstones and limestones of what is known to geologists as the Silurian system.

The phosphate of lime occurs only in tilted Laurentian rocks, although there are exceptional instances in which the very lowermost sandstones of the flat-lying Silurian hold some traces of the mineral. In such cases, however, the phosphate has clearly been derived from the disintegration of the inferior crystalline strata. But the rocks in which phosphate of lime occurs are but a very small portion of the great Laurentian system, and their true stratigraphical position has only recently been determined. They have been found to represent a very recent portion of this ancient series of rocks, being underlain by an immense thickness of gneiss with interstratified crystalline limestone in which phosphate of lime either does not occur, or but in mere traces. Hence it is only where this recent and upper portion is exposed that this mineral is to be looked for. This fact now clearly established, at once explains why we have as yet only met with two productive sections throughout the whole of the great area occupied by the Laurentian rocks.

Confusedly as the phosphate-bearing rocks appear, at first sight, to be distributed, investigations have shown that a regular succession or sequence is always maintained and may invariably be looked for. There is, for example, always a lower and an upper belt of crystalline limestone as well as an intermediate; and between each of these again bands of pyroxenic rock, characterized by deposits of phosphate of lime in one or other of the three forms yet to be described. So great and frequent, however, are the contortions and plications of the strata in each of the areas we have under discussion, that it is by no means unusual to find the same band of limestone or phosphate-bearing rock brought again and again to the surface within very limited areas. Thus, notwithstanding the fact that the whole thickness of the phosphate-bearing strata is but small as compared with the great mass of the Laurentian, we find strata often spread over very considerable areas of country, as for example, in Elmsley, Burgess, Bedford, and Loughboro'. Independently of this crumpled-up condition of the phosphate-bearing rocks, it has been found that, as a whole, they are arranged in the form of a great trough or *synclinal*, in each of the sections explored, and are beyond a doubt the highest portion of the Laurentian system yet discovered. To simplify description as much as possible, I may at once state that the trough form of these rocks in the Ottawa County mining district is clearly merely the extension of that in the Perth and Rideau District, although as has been already shown, the rocks are entirely capped over and concealed between Perth and Ottawa City by the horizontal sandstones and limestones of the Silurian formation. How far this great trough of rocks extends to the northward between the Gatineau and Aux Lièvres Rivers is a point yet to be determined; but in our explorations around the Desert River settlement—about 95 miles to the north of Ottawa—the trough still had a breadth of several miles, and its margins, although converging perceptibly, continued to run northward.

Croppings.

[Compiled, Condensed and Condensed from our Exchanges.]

A very valuable nickel mine has been found in Nevada. The ore yields thirty-seven per cent. of pure nickel.

Reliable statistics show that from the first discovery of gold in California up to the present time mining has paid an average of eighteen per cent. on the money invested.

Two Frenchmen have discovered a five-foot vein of argentiferous galena on the Humboldt River, near Golconda, Nevada. The vein is only a few hundred yards from the railroad.

The yield of the Richmond Company, of Nevada, in bars of silver for the year 1881 was \$1,172,000. This does not include the immense quantity of lead turned out at the company's refinery.

The Hopewell Copper Mine, in Mecklenburg county, N. C., is now being actively worked by a Baltimore company. One assay shows about twenty-five per cent. copper, and the yield of gold is about \$25 per ton.

The coal fields of Alabama are coming to the front, an abundance of coal of a superior quality having recently been found. G. A. Otis, of New York, superintendent and manager of the Belmont Mines, has let contracts for building forty dwelling houses for the accommodation of miners, and also two school houses and one store house.

Clarence King, the eminent geologist, has formed a \$2,500,000 syndicate to reopen the famed Sonbrerete Mines of Old Mexico. These mines, situated near the boundary line of the States of Durango and Yacatecas, were wonderfully rich when worked years ago. Mr. King proposes sinking a shaft 1,000 feet deep, the works for which have been ordered in New York at a cost of \$250,000.

IRON TRADE REVIEW.—In reviewing the iron trade of 1881, Mr. James M. Swank, Secretary of the Iron and Steel Association, says: "The year 1881 has been the most prosperous the American iron trade has ever experienced. It has been, too, a year of uniform prosperity—not characterized by spurts and reactions, but by a steady demand at good prices in every month. The production of the year is far in advance of that of any previous year, and it has all gone into consumption. Never has there been a healthier business by our iron and steel manufacturers than they have done in 1881. And the year ends with more orders on the books of manufacturers than were entered when it began, and at prices higher than were then obtained." As to the prospect for 1882 Mr. Swank says: "The year 1882 will open under favorable auspices for our iron and steel industries, as has already been indicated, but coupled with some doubt about the prosperity which they will then experience being continued throughout the year. It is almost too much to hope that we can be blessed with another year of such uniform prosperity as that which is just closing. We do not say that there are breakers ahead, for we do not believe that another panic is possible; but we advise everybody who makes iron and steel to watch the railroad stock market, the foreign demand for our agricultural products, and the general financial situation."

EASTERN INDUSTRIES.

A clothes-pin factory has been added to the manufacturing industries of Denmark, Oxford County.

There are 49 cigar manufactories in New Hampshire, with an annual production of some 3,057,000 cigars.

D. F. Littlefield, of Saco, has recently shipped several hundred barrels of apples to Glasgow, Scotland.

Messrs. E. Merritt & Sons, Houlton, are shipping potatoes by sailing vessels from St. Andrews to Baltimore.

The Castine Brick Co., are erecting on their premises a new building 24x30 feet, two stories, to be used for their brick makers.

The Cherryfield Ice Company intend to harvest a very large crystal crop at their fine privilege at Prospect Harbor in the town of Gouldsboro.

All the heavy machinery has been placed in the bag mill at Richmond, and only a few more light machines have to be put in before being ready to work.

Messrs. Burgess, O'Brien & Co., Thomaston, have fired their large kilns for the purpose of burning 2000 casks of lime for R. G. Morse & Co., Boston.

Axel Hayford, of Belfast, has begun the manufacture of fish

barrel heads. He has purchased 50 cords of pine timber, which is being hauled to the factory.

Knowlton Bros., of Camden, have contracted to build two polishing lathes and two upright polishers for the Collins Granite Company, at East Blue Hill.

The Portland Packing Company will erect a corn-canning factory at Winthrop, land having been secured for the purpose. The making of cans begins there at once.

A large pulp mill is to be erected on the Penobscot at West Great Works, Oldtown. It is understood that \$150,000 will be invested. The machinery has been already ordered.

The survey for the Marine Railway across the Isthmus of Chignecto has been completed. It is said that a straight and level line can be obtained, although the work in places will be heavy.

J. H. Bonney & Co., Farmington, recently made their second shipment of apples to Houston, Texas, consisting of two car-loads—about 450 barrels. They go by rail and in charge of a man in their employ.

James H. Barrows, North Paris, will put about 10,000 Shaker chairs of various kinds and prices into the market this year. He intends these shall surpass, in point of excellence, the high reputation his chairs already hold.

The shipments of butter from Franklin County, Vt., the past year amounted to 1,092,424 pounds, for which \$296,381 was paid, which is \$90,000 more than in 1880. The average price paid was 27 cents per pound.

Over two thousand rabbits have been caught this winter in Bailey District, in the town of Prescott, and shipped to the New York market. A Mr. Austin is agent for New York parties and pays eight cents apiece for the rabbits.

Shipments from the Auburn shoe factories for the week ending Feb. 1 amounted to 1931 cases; weight of leather received, 77,067 pounds. In the corresponding week of 1881 there were shipped 1514 cases and 17,731 pounds of leather were received.

The Eagle Sugar Refinery, Portland, consumed the past year 7,032 hogsheds of molasses, and turned out 2,634 tons of sugar. This places Portland ahead of Boston, where the production amounted to 2,174 tons, and also ahead of Baltimore, where the production was 2,380 tons.—[Transcript.]

Freeman Littlefield, of Winterport, manufactured for Boston parties during the past year 60,000 vests, and paid out to persons in his employ \$20,000. Although the price paid for making vests, unfinished, is but ten to fifteen cents, yet so expert do some become that they are enabled to earn very fair wages.

The shoe factory of Messrs. Emery & Holmes, Biddeford, furnishes employment for 100 workmen, and is doing an annual business of about \$100,000. A specialty is made of ladies', misses' and children's fine shoes, and these goods are sold extensively throughout New England, New York and several western states.

Halifax is a great shipping port. Last year 680 vessels arrived there from foreign ports, of which 331 were steamers. This is about equal to between a sixth and a seventh of the foreign shipping at New York. In the coasting trade the arrivals were 3,290, or equal to nearly one-half the total coasting arrivals at New York.

The Bates Mills, Lewiston, have purchased 500,000 brick of Mr. J. W. Whitehouse. 1,000,000 will be required for the extension of their mills, as proposed the coming summer. They will commence to blast an excavation for their new wheelpit and tailrace about the first of March, and from that time till fall, business will be lively in that vicinity.

The Portland Electric Light, Power and Heating Company are busily at work putting up their wires and machinery. They expect to be able to light twenty buildings, including stores, City Hall, Probate House and United States Hotel during the present week. They have four engines to develop electricity by friction, each engine capable of running ten lights.

The Eastport Sentinel says the products of the sardine industry in this section of the State will amount to not far from one million dollars. The number of cases packed during the past year is probably about double that of the year before, while the price per case is about one-half of that realized the previous year. The factories are owned by New York and Eastport parties.

A London joint stock company, with a capital of one hundred thousand pounds, has purchased the Milleroche property opposite Rimouski, consisting of 80,000 acres, with a frontage of 10 miles on the River St. Lawrence. The company intend

to carry on lumber and pulp business, and will build wharves and provide facilities for the loading of vessels. Operations will be commenced at once.

The total value of goods entered for consumption in the Dominion (exclusive of British Columbia) for the month of December was \$6,767,555, and the duty paid amounted to \$1,309,981. During the month of December there were exported from the Dominion (exclusive of British Columbia) goods to the value of \$5,371,532—\$5,227,339 was the produce of Canada and \$147,193 the produce of other countries.

Wm. B. Wood, Esq., Treasurer of the Franklin Company, has stated, within a few days, that even if the Governor does not call a special session of the Maine Legislature and the new corporation cannot get a charter this spring, the Franklin Co., which holds half the stock, will probably go ahead and put in the foundation for the proposed new mill on the lot north of the Bates, the coming summer.—[Lewiston Journal.]

The Chignecto Post says: A strong company, composed of the Messrs. Bigelow, of Cornwallis, Whitney, of New York, Captain George Spicer, Johnson Spicer, Williams and others of Spencer's Island, has been formed for the purpose of carrying on shipbuilding at Spencer's Island, N. B. It is intended to place on the stocks in the spring a ship 210 feet in length. A large number of men are now in the woods getting out the timber.

A fine piece of granite work has just been finished at Vinalhaven by the Bodwell Granite Company. It is in relief, and consists of two figures, one representing "Justice" and the other "Commerce," while between them and in the center is a large shield on which are carved the stars and stripes. The work is for the new Custom House and Post Office at Cincinnati. It took about 180 days' labor to cut it, and costs for labor alone in the neighborhood of \$600.

E. F. Gilman, of Farmington, is the largest buyer of horses in Maine. He heads the list with 236 horses bought and shipped in 1881. Next come Gideon Wells, of Clinton, with 225; John C. Horn, of West Waterville, 116; G. J. Shaw, Hartland, 74; A. W. Brackett, Pittsfield, 23; H. Washburn, Solon, 15. Besides these Horace Nelson, of China, has sold about 160. Then Pompilly & Ryerson, of Auburn, must have bought and shipped nearly as many as any firm in Maine.—[Ex.]

At the opening of the Nova Scotia Parliament, on the 19th inst., the Governor, in his address, stated the industries of the Province had flourished and many new ones had been and were being started; that there had been good crops and not a bad run of fish; that the returns from their mines and minerals were steadily increasing; that the Art Exhibition had brought people together to see pictures and that the Dominion Exhibition showed progress; that the export trade was flourishing by the addition of new markets, and coal and other minerals were being produced in larger quantities, and that the public accounts would show a surplus.

At the annual meeting of the Collins Granite Company of Blue Hill, held in Portland, Monday, the directors reported 115 men at work at the quarries, and also plenty of work on the Mills building and Produce Exchange building of New York; also that they had contracted with the Portland Co. and other parties for two engines and boilers, steam pumps and drills and polishing lathes for making granite columns, and machines for polishing general work. The company have a valuable property, and with improved steam machinery and careful management expect to make a fine showing for the coming year. Eben Corey, C. J. Chapman, J. F. Randall, Albion Little and Christopher Binder were chosen directors.

THE LEATHER INDUSTRY.—Within a few years a large trade in leather has sprung up between Canada and the United States on one hand, and Germany, France and England on the other. In 1870, United States exported only about \$100,000 a year. Now their exports are about \$7,000,000 a year. Canada has doubled her exports in ten years, while her imports have been reduced one-half. The secret of this enormous change consists in the extensive hemlock forest growth in the United States and Canada, which affords a tanning agent at one fourth the cost it can be obtained in Europe. The value of all sole leather is dependent upon the permanency of the combination of the tanning with the gelatine of the hide. With no other agents can a union so fixed be obtained as with oak and hemlock, hence the value of the leather. At first, a strong prejudice existed in Europe against American leather, but this has been fully overcome. No similar territory in America possesses the same range of hemlock as this Province, and hence with our facilities for transport, our harbors and railways system, we possess all the essential requisites for building up this industry, probably on a more permanent footing than any other country.—[Sackville (N. B.) Post.]

The Portland Co-Operative Stove Company, whose foundry and works are located at Biddeford, employ forty men and are running on full time, yet finding it impossible to keep up with their orders. This company, says the Biddeford Journal, makes a specialty of the manufacture of the popular "Falmouth" range, the two sizes of which have had large sales throughout New England. Another specialty is the "Belmont," which, although being a cheaper range, has become quite celebrated. The "Florence" cook stove, which is manufactured by this company, since it was first put into the market has met with a ready sale and given universal satisfaction. The Portland Co-Operative Company was the originator of the famous Falmouth parlor heater, which is so constructed as to heat from the base below the first box, and although stove manufacturers throughout the country have imitated the idea as closely as possible without infringing upon the patent, this company still maintains the lead. An improved style of the parlor heater is soon to be placed on the market. Improvements on the Falmouth range are also soon to be made, which will make it second to none in the country. This company also makes a specialty of the manufacture of hollow ware.

The Moncton Cotton Manufacturing Company is a new company with \$40,000 capital, at Moncton, N. B. The officers are: John L. Harris, President; W. C. Robinson, Treasurer; John McKenzie, Secretary; and Fred N. Bosson, Superintendent. The goods to be produced are sheetings, shirtings, denims, wineys, etc. A mill will be erected at once, 80x215, three stories, brick, 10,000 spindles, with engine house, picker house, storehouse and tower, sufficient in size and suitably arranged to double the size of the mill. Moncton, a place of about 10,000 inhabitants, will furnish a sufficient amount of good help. It is said that good anthracite coal from mines in the vicinity can be laid down for \$1.10 per ton, and the local interest felt in the mill is such that it has been exempted from taxes for a term of years, and water and gas have been arranged for at nominal rates. Vessels of any size float to the mill yard dock, and a branch of the Intercolonial Road runs into the yard. John L. Harris, the president, is also president of the Moncton Sugar Refinery Company, and the foremost man in manufacturing enterprises in that section. Fred N. Bosson, the superintendent, was formerly at the Ipswich Mill. This is the second cotton mill in New Brunswick. Their office in Boston is at 60 Devonshire street, room 8.—[Boston Journal of Commerce.]

Railroad, Steamboat and Hotel Notes.

Mr. F. O. Beal, the popular landlord, is inaugurating a large number of improvements at the Bangor House.

Work on the new steamer for the Bangor & Bar Harbor Line is progressing favorably at Oakes' upper yard, near the ferry slip.

Steamer Henry Morrison, of the Rockland and Blue Hill Line, is at Portland receiving extensive repairs on her machinery, boilers and engine.

It is rumored that Col. Greene of the Grand Southern Railway is negotiating for the purchase of the St. Croix & Penobscot Railway from Calais to Princeton.

Passenger rates on the Trunk Lines to the West have been restored, and fares from Portland to Chicago, via the Grand Trunk, have been raised to \$12, one dollar higher than ever before.

It is uncertain whether landlord Shaw will renew his lease of the Falmouth Hotel in Portland. Rumor hath it that he may assume charge of a Chicago hotel but he will not give up his West End Hotel at Bar Harbor.

The Presque Isle North Star learns that a stock company is being formed for the purpose of building and operating a first class hotel in that place. The capital stock is to be \$10,000, one half of which is already subscribed.

The meeting of the bondholders of the Bucksport and Bangor Railroad in Bucksport on Tuesday evening was adjourned owing to the small attendance to Tuesday, the 28th, when it will be held at the Bangor House in this city.

Several new passenger cars have recently been added to the rolling stock of the Eastern Railroad; they are elegant in design, tastefully painted, and equipped with the Baker heater, so arranged that there is no danger of the car taking fire from the stove.

A new steamer for the Frenchman's Bay Steamboat Line is well under way near the Brewer ferry slip, opposite this city. The craft is about 75 feet keel, will be about the same tonnage as the "May Field," and will ply between Bar Harbor and Sullivan the coming season.

The auxiliary steamer Maynard Sumner was launched at Rockland recently. She is 307 tons, 143 feet length, 28 1-2 feet

beam, 10 feet depth, engine 120-horse power. She is three masted and schooner rigged. The craft is owned by the Bodwell Granite Company and is to be fitted for the general freighting business.

The Rockland Courier-Gazette says the new managers of the Lynde Hotel have completed a lease for the store recently occupied by C. G. Chandler in the Farnsworth Block, which they will use for a Sample Room. Their idea is that commercial travelers will object to a room in the hotel, as being too far down town, and they intend to give their guests as good accommodations as is possible.

Canada aspires to the possession of the longest railroad of the world extending from Halifax, Nova Scotia, to Burrard Inlet on the Pacific coast and measuring about 4,500 miles. Some 1,500 miles are now being built in the eastern provinces (International & Canada Central), 500 miles in Manitoba and 100 in British Columbia, making nearly half. It is expected that the balance will be completed in seven years. It will traverse the Manitoba wheat lands, which are said to produce sixty bushels of first quality wheat per acre.

The representatives of the various towns along the line of the Knox & Lincoln Railway met at Damariscotta on the 25th of last month, to consider the offer made by the Maine Central to lease the road for a term of years at a rental of \$60,000 per annum for the first twenty years and \$72,000 per annum perpetually thereafter. The proposition was favorably discussed and it was unanimously resolved to submit the question to a vote of the cities and towns owning the road. A committee was appointed to draw up the lease and forward the same to the Maine Central directors at Portland, which was accordingly done. On Wednesday last the committee met the M. C. directors, when the terms were accepted and the lease perfected for presentation to the towns. The balloting will take place at an early day and there is little doubt but that favorable action will be taken.

Mr. C. H. Fiske, who lost his hotel at Old Orchard in the great fire of November last, has nearly completed his arrangements for rebuilding. He purchased the St. Cloud site which gives him a very large lot and one of the finest at the beach. He probably will contract with Cressy & Noyes, of Boston, who will commence in March to erect his new hotel, which will be much larger and better than the old Fiske House. The new house will be 156 feet long on the sea wall, and 40 feet wide. There is to be an L on the northeast 40 feet wide and 115 feet long. The main house is to be three stories high above the piazza, and is to have a Swiss Roof. Under the piazza there is to be another story which is to be used as a billiard hall, etc. The L is to be three stories in height with a flat roof. It will be remembered that Cressy & Noyes were the builders of the Old Orchard House.—[Biddeford Times.]

Nuggets.

—Garfield Post, No. 46, G. A. R., of Blue Hill, will have a camp fire on Saturday evening.

—The Twin Lead stock, on which the assessment is unpaid, will be delinquent on Monday next.

—Mr. E. J. Swan, of Franklin, has begun the erection of two summer cottages at Hancock Neck.

—The Boston Mining and Stock Exchange have moved into their new quarters at 66 State Street.

—Mr. J. M. Donham is in the city during the present week in the interest of the Maine Register.

—Petitions to Congress for a duty on ice of one dollar per ton have been circulating in Lewiston and Auburn.

—Mr. James Emery, of Bucksport, has invented an apparatus for heating and cooling cars and expelling the dust.

—Attention is called to the announcement in our advertising columns of the annual meeting of the Young Hecla Mining and Smelting Company.

—Mr. Daniel Sullivan, formerly of this city but now of Central Falls, R. I., has received a gold medal for his boiler exhibit at the Atlanta Exhibition.

—The Transcript says the Portland Society of Natural History has 500 members, and its ornithological collection numbers 371 mounted birds, of which 310 are North American.

—The Islands in Portland Harbor have been designated as East Portland by the Peaks Island "Improvement Society." The society was lately formed for social entertainment.

—Attention is called to the delinquent sale notice of the Douglass Copper Company. The stock upon which assessment

No. 1 is unpaid will be sold at public auction at the Treasurer's office in Bangor on Friday, Feb. 24th.

—The annual meeting of the stockholders of the Portland Smelting and Reduction Works will be held in Portland at the office of Drummond & Drummond on Tuesday, Feb. 14th.

—Some fine specimens of granite have recently been on exhibition at the office of the Street Commissioner, City Building, Portland. The granite was from Stark's Hill in the town of Fryeburg and it is the intention of the owner, Mr. David Leavitt, to open the quarry during the present season.

—N. A. Hawes, of Brooksville, has recently purchased a lot on the western slope of Perkins' hill, about one-half mile easterly from North Castine ferry. He is now sinking a shaft which has reached a depth of about 12 feet and is taking out some good ore, a sample of which can be seen at this office.

—Chas. P. Gray, of South Penobscot, has a good mineral showing on his farm which borders on the north bay of the Bagaduce, about three-fourths of a mile east of the Hercules Mine. A few samples taken from near the surface have been received at our office. But little prospect work has yet been done on the property.

—Stockholders in the old Atlantic Copper Mining Company who have not yet had their shares transferred into Stewart stock should do so at once or they will be sold out to pay the assessment recently levied and with the stock market in the present condition stockholders cannot expect to realize much from such a sale.

—A New York journal devoted to the ice interests estimates that 600,000 men are employed in that business in the United States during the season, that \$30,000,000 are expended in a year and that fully \$40,000,000 are invested in the business. The ice storage capacity of the country is placed by the same authority at 32,000,000 tons.

—The Fairhaven (Vt.) Marble and Marbleized Slate Company has posted rules stating that employes drinking intoxicated liquors upon the company's premises, or being intoxicated while at work, will not only be discharged, but will be held for the legal penalties. Any person giving or selling intoxicating liquor upon the premises will be prosecuted to the full extent of the law.

—The Dirigo Slate Quarry, together with all buildings, fixtures, tools and improvements, will be sold at public auction on Friday, March 3d, at the office of F. O. Bailey & Co., 18 Exchange street, Portland, Me. The Dirigo Slate Quarry is situated in the town of Monson, in Piscataquis county, and an excellent opportunity is now presented for enterprising capitalists to secure this very valuable property. Particulars of the sale can be obtained by addressing the auctioneers.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, FEB. 5, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Atouez	3 5/8	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4	3 3/4
Atlantic L. S.	15	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2
Atlas	11	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
Blue Hill Copper ..	11	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
Brunswick	11	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
Calumet & Hecla ..	232	234	233	235	234	236	235	237	236	238	237	239
Catalpa	26	24	24	24	24	24	24	24	24	24	24	24
Central	26	24	24	24	24	24	24	24	24	24	24	24
Copper Falls	26	24	24	24	24	24	24	24	24	24	24	24
Contentment	26	24	24	24	24	24	24	24	24	24	24	24
Douglass	26	24	24	24	24	24	24	24	24	24	24	24
Dana	26	24	24	24	24	24	24	24	24	24	24	24
Duncan Silver	26	24	24	24	24	24	24	24	24	24	24	24
Empire	26	24	24	24	24	24	24	24	24	24	24	24
Franklin	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	12 1/2
Harshaw	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Iluron	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Hanover	26	24	24	24	24	24	24	24	24	24	24	24
Humboldt	26	24	24	24	24	24	24	24	24	24	24	24
International	26	24	24	24	24	24	24	24	24	24	24	24
National	26	24	24	24	24	24	24	24	24	24	24	24
Osceola	26	24	24	24	24	24	24	24	24	24	24	24
Pewabic	13 1/2	14 1/2	14 1/2	13 1/2	14 1/2	14 1/2	14 1/2	13 1/2	14 1/2	14 1/2	13 1/2	14 1/2
Phoenix	26	24	24	24	24	24	24	24	24	24	24	24
Pontiac	26	24	24	24	24	24	24	24	24	24	24	24
Quincy	41 1/2	42	41	43	40	42	40	41	40	41	41	42
Ridge	3 1/2	4	3 1/2	4	3 1/2	4	3 1/2	4	3 1/2	4	3 1/2	4
Silver Islet	27	27 1/2	25	27	19	20	20	21	20	22	18	20
Star	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2
Sullivan	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2

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Bangor, February 2d, 1882.

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Leave Bucksport.	5.30	A. M. Train leaves Bangor	5.00
Arrive Bangor.	6.42	for Mondays and	5.00
Leave Bangor.	7.35	Thursdays at 11	6.05
Arrive Bucksport.	8.45	A. M., Tuesdays &	7.15
		Fridays at 2 P. M.	8.25
Train also leaves Bucksport on Tuesdays and Fridays at 10 A. M. On Wednesdays and Saturdays on arrival of Boston steamer.			
The 3.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.			
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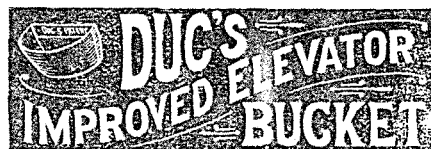
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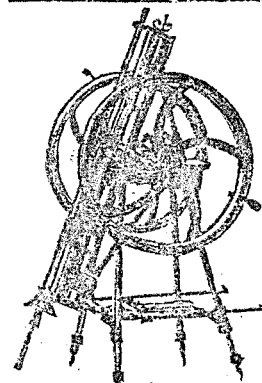
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5.—8.—113.

BANGOR, MAINE, FEBRUARY 24, 1882.

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MINES AT.....BLUE HILL, ME.

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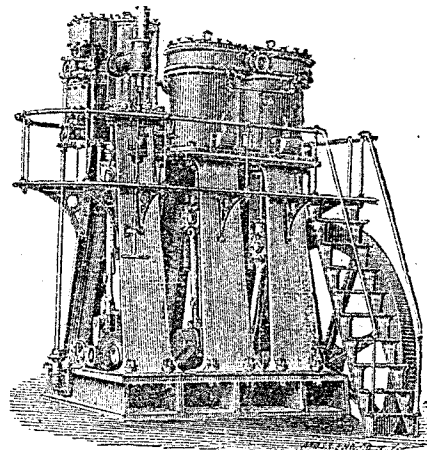
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STEWART COPPER MINING COMPANY.

Mines at Blue Hill, Me. Principal Place
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NOTICE.—In accordance with the by-laws of the Company so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, in Bangor, Me., (No. 5 Wheelwright & Clark's Block), on Saturday, the twenty-fifth day of March, 1882, at 2 o'clock P. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is ten (10) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued, are as below indicated in their appropriate column.

Name.	No. of Certificate.	No. of Shares.
Atlantic Copper Mining Co.	526	1,444 1/2
O. Bailey	79	500
O. Bailey	80	100
O. Bailey	81	100
O. Bailey	82	50
J. R. Bodwell	83	500
J. R. Bodwell	84	500
J. R. Bodwell	85	500
J. R. Bodwell	86	500
J. R. Bodwell	87	500
J. R. Bodwell	88	100
J. R. Bodwell	89	100
J. R. Bodwell	90	100
J. R. Bodwell	91	100
J. R. Bodwell	92	100
J. R. Bodwell	93	100
J. R. Bodwell	94	100
J. R. Bodwell	95	100
J. R. Bodwell	96	100
J. R. Bodwell	97	100
J. R. Bodwell	98	25
G. S. Bean	106	100
G. S. Bean	114	100
G. S. Bean	115	100
G. S. Bean	187	75
C. C. Burrill	232	75
A. M. Bartlett	315	500
Robert Caldwell	318	101 1/2
H. P. Caldwell	321	500
John Humphrey, Trustee	203	100
Benj. Huckleby	317	18 1/2
Bion R. Lane, Trustee	228	100
Bion R. Lane, Trustee	240	100
Bion R. Lane, Trustee	241	100
Bion R. Lane, Trustee	242	100
Bion R. Lane, Trustee	243	100
Bion R. Lane, Trustee	250	87 1/2
J. F. Porter	258	18 1/2
G. M. Parker, Trustee	292	25
Wm. H. Raymond	223	75
H. N. Pinkham, Trustee	398	100
H. N. Pinkham, Trustee	414	200
H. N. Pinkham, Trustee	515	200
H. N. Pinkham, Trustee	516	200
H. N. Pinkham, Trustee	517	100
H. N. Pinkham, Trustee	594	100
H. N. Pinkham, Trustee	595	50
Geo. F. Ropes	598	75
Fred. S. Stanwood & Co.	11	200
Fred. S. Stanwood & Co.	12	200
Fred. S. Stanwood & Co.	13	200
Fred. S. Stanwood & Co.	14	100
Fred. S. Stanwood & Co.	15	50
J. A. Strout, Trustee	32	37 1/2
J. L. Skolfield	187	200
J. L. Skolfield	188	250
James H. Stetson	411	75
Edward Tyler	420	75
G. A. Tapley	318	1,000
G. A. Tapley	319	1,000
G. A. Tapley	320	1,000
James Young	99	100
F. H. Williams, Trustee	588	500
F. H. Williams, Trustee	461	500
F. H. Williams, Trustee	439	500
F. H. Williams, Trustee	504	500
F. H. Williams, Trustee	433	500
F. H. Williams, Trustee	447	500
F. H. Williams, Trustee	443	500
F. H. Williams, Trustee	505	300
F. H. Williams, Trustee	462	200
F. H. Williams, Trustee	463	200
F. H. Williams, Trustee	596	200

F. H. Williams, Trustee	589	200
F. H. Williams, Trustee	407	100
F. H. Williams, Trustee	423	100
F. H. Williams, Trustee	424	100
F. H. Williams, Trustee	425	100
F. H. Williams, Trustee	426	100
F. H. Williams, Trustee	427	100
F. H. Williams, Trustee	439	100
F. H. Williams, Trustee	440	100
F. H. Williams, Trustee	441	100
F. H. Williams, Trustee	442	100
F. H. Williams, Trustee	443	100
F. H. Williams, Trustee	449	100
F. H. Williams, Trustee	450	100
F. H. Williams, Trustee	451	100
F. H. Williams, Trustee	452	100
F. H. Williams, Trustee	453	100
F. H. Williams, Trustee	464	100
F. H. Williams, Trustee	536	500
F. H. Williams, Trustee	537	100
F. H. Williams, Trustee	538	100
F. H. Williams, Trustee	539	100
F. H. Williams, Trustee	540	100
F. H. Williams, Trustee	541	100
F. H. Williams, Trustee	542	100
F. H. Williams, Trustee	54	75
F. H. Williams, Trustee	302	75
F. H. Williams, Trustee	454	75
F. H. Williams, Trustee	465	75
F. H. Williams, Trustee	530	50
F. H. Williams, Trustee	543	50

C. F. BRAGG, Treasurer.

Bangor, Feb. 22, 1882.

Delinquent Sale Notice.

Douglass Copper Company.

Location of principal place of business, Bangor, Maine.
Location of mine, Blue Hill, Maine.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, payable November 30, 1881, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. certificate.	No. shares.	Am't
Wm. D. Swazey, treasurer, trustee	560	1000	\$1000
Wm. D. Swazey, treasurer, trustee	530	1000	1000
Wm. D. Swazey, treasurer, trustee	531	1000	1000
Wm. D. Swazey, treasurer, trustee	532	1000	1000
Wm. D. Swazey, treasurer, trustee	533	1000	1000
Wm. D. Swazey, treasurer, trustee	534	500	500
Wm. D. Swazey, treasurer, trustee	535	500	500
Wm. D. Swazey, treasurer, trustee	536	500	500
Wm. D. Swazey, treasurer, trustee	537	240	240

And in accordance with law and an order of the Board of Directors, so many shares of each parcel of such stock as may be necessary will be sold at public auction, at the Treasurer's office, in Bangor, Me., on FRIDAY, the twenty-fourth day of February, 1882, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

FRANK H. WILLIAMS, Treasurer.

Office, 12 West Market Square, Bangor, Me.

PIANOS!

JUST RECEIVED.

Chickering & Sons Pianos,

Six different styles; the finest assortment ever received in the State of Maine.

The metallic upright action is the best in the world.

IVERS & POND PIANOS!

One 7 1/2 octave square; one 7 1/2 octave upright.

EMERSON PIANO CO.,

One 7 1/2 octave upright; three 7 1/2 octave squares. A full stock of

WILCOX & WHITE

ORGANS

All new and the best in the market, ranging in price from \$75.00 to \$300.00 each.

Sheet Music and Musical Instruments.

Now is your time to get first-class new goods; write or call for prices and terms.

A. M. DEVEREUX,

MASONIC BLOCK,

Main Street,

Bangor, Maine.

ANNUAL MEETING.

Young Hecla Mining and Smelting Co.

The annual meeting of the Young Hecla Mining and Smelting Co. will be held at the office of Wiggin & Williams, No. 12 West Market Square, Bangor, Maine, on Thursday, March 9th, 1882, at 3 o'clock P. M.

WM. FRANKLIN SEAVEY, Secretary.

R. H. GAIRDNER,

GENERAL BROKER and MINING AGENT.

28 St. Francois Xavier St., Montreal.

DIRIGO SLATE QUARRY, AT AUCTION.

We shall sell on Friday, March 3d, at 2 o'clock P. M. at the office of F. O. Bailey & Co., 18 Exchange St., Portland, Me., the Dirigo Slate Quarry, situated in the town of Mousou, together with all buildings, fixtures, improvements, tools, etc. For particulars of sale etc., apply to

F. O. BAILEY & CO.,
Auctioneers.

JOS. D. TAYLOR, }
WM. B. TOBEY, } Assignees.

PATENTS

We continue to act as Solicitors for Patents, Caveats, Trade Marks, Copyrights, etc., for the United States, Canada, Cuba, England, France, Germany, etc. We have had **thirty-five years' experience.**

Patents obtained through us are noticed in the SCIENTIFIC AMERICAN. This large and splendid illustrated weekly paper, \$3.20 a year, shows the Progress of Science, is very interesting, and has an enormous circulation. Address MUNN & CO., Patent Solicitors, Pub's. of SCIENTIFIC AMERICAN, 37 Park Row, New York. Hand book about Patents free.

NOTICE.

Milton Mining & Milling Co.

A special meeting of the stockholders of the Milton Mining & Milling Company will be held at the office of Charles P. Mattocks, No. 31 1/2 Exchange Street, Portland, Maine, on WEDNESDAY, the first day of March next, at 10 o'clock A. M.

To take such action as may be expedient for the purpose of providing working capital for the company:

To act upon a proposition to transfer the assets and liabilities of the company to the Milton Mining Company, a corporation chartered by special act of the Legislature of 1881;

To pass any votes, and institute any proceedings, and adopt any plan that in the present state of the company may be deemed advisable with reference to securing funds for the current expenses of the mine, and to act upon the following proposed vote namely:

That the President be directed in the name of the company to execute and deliver a written and sealed conveyance and assignment of all the property, effects, contracts, leases, securities, goods, and estate of every description belonging to this company and to deliver such property and estate to the Milton Mining Company. The capital stock of which is (\$1,000,000) one million dollars, and the shares two hundred thousand (200,000) of a par value of five dollars (\$5.00) each, assessable, provided there shall be inserted in said conveyance and assignment an agreement that said Milton Mining Company shall assume all debts, liabilities and contracts of this company; and provided further, that upon said delivery by him there shall be delivered to the treasurer of this company certificates of the entire stock of the said Milton Mining Company, to be distributed, share for share, to the stockholders of this company, their personal representatives and assigns; which said transfer from this corporation to the said Milton Mining Company shall constitute a payment of fifteen per cent. of the par value of each share; and to take action on any vote embodying the whole or any part of the foregoing proposed vote.

W. OSCAR ARNOLD, Secretary.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING,
W. F. BLANDING, } EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

Subscription price, \$2.50 per year, or \$2.00 when paid in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, FEBRUARY 24, 1882.

A special meeting of the stockholders of the Milton Mining and Milling Company will be held in Portland on Wednesday next to consider reorganization under a special charter granted by the Legislature of 1881 and upon a basis which will be assessable.

A party of Bangor gentlemen including His Honor Mayor Strickland have made a tour of inspection during the present week of the Bangor & Katahdin Iron Works Railroad and also visited and examined the Katahdin Iron Works. A detailed report will appear in the next issue of the Journal.

The basis upon which mining is being placed should create confidence in the lasting qualities of its resources. The whole is the result of competent business men and sound business principles having succeeded the bold adventurers and unreliable speculative characters so predominant in every new mining district. The profits of the industry are becoming more reduced to mathematical calculation. There is less chance and more certainty.—[Salt Lake Tribune.]

The changes in the mining share market of Boston are unimportant. Owing to Wednesday being the anniversary of Washington's Birthday the Exchanges transacted no business on that day. On the Boston Mining & Stock Exchange the sales on Tuesday were Mammoth 10c to 8c, Twin Lead 17c to 13c, Deer Isle 19c to 17c, and Milton 14c to 10c. Sullivan has been the principal Maine stock sold on the Boston Stock Exchange during the week and sales are recorded from \$1 3/4 to \$2.

The prospect of the speedy construction of the Shore Line Railroad is very encouraging. The towns along the proposed line are taking a very active interest in the matter and are voting unanimously to grant the small aid which has been asked of them. There are many towns not direct-

ly on the line but near enough to receive great benefit from the building of the road and some assistance ought to be expected from them. The citizens and especially the merchants of Bangor are manifesting deep interest in the railroad and express a willingness to render material aid. The benefits to be reaped by our city by direct railroad connections with the thriving cities and towns of Hancock & Washington counties is self evident. Col. Greene has called a meeting of the incorporators to be held at Calais to-day (Friday) and it is expected the Maine Shore Line Railroad Company will be organized at this session.

COPPER—ITS VARIOUS USES.

[The Stockholder.]

[CONTINUED FROM LAST EDITION.]

In the Mississippi valley, where nature seems to have arranged everything on a colossal scale—creating great prairies, with great streams to drain them, great basins of lead, and mountains of iron and manganese, thus providing for the present and future needs of the immense population of intelligent human beings destined to inhabit this section—she has not omitted to supply an ample store of copper.

Lately there has been opened in Missouri, sixty-five miles from St. Louis, by river, and at a distance of eight miles from the western bank of the Mississippi, the St. Genevieve Copper Basin. The deposits here seem to have been arranged somewhat upon the same plan as the lead deposits of the St. Joe Basin, situated 25 miles further west. This St. Joe lead basin, if sufficient capital and labor were employed, could, for some years at least, supply the lead market of this country, and earn a fair profit at three cents per pound for pig lead. It now looks as though this Genevieve basin might, under similar outlay, yield at least all the present output of copper in the United States, and that for many years to come. Although three copper floors, or horizontal veins between limestone, have been found, and a fourth suspected, but one of these has been prospected to any extent. The drifts have only penetrated the extreme edge or outer rim, on the upper copper floor of this basin, a few feet, and already, in one drift the vein is four feet thick, in another three feet, and in a third one foot.

Four miles away from these drifts, to the north, the same upper floor has been followed, and has grown from three inches to eight inches in thickness in a short distance. This entire basin, say four miles long by two miles wide, is elevated say 400 feet above the Mississippi, thus making the drainage of these copper floors sure and cheap. The ore is of the same kind, quality and richness throughout, ranging from seventeen to twenty-five units. It is a dry or smelting ore, containing no arsenic or antimony; it has enough iron and lime to flux itself, or if more lime is needed, vast deposits of oolitic limestone exist near by. A sandstone is found in the same vicinity, which for furnace linings surpasses any fire brick that can be found.

The surface soil is good farming land, capable of yielding generous crops of all grains, grapes, fruits or vegetables of that latitude. The climate is mild and healthy. Coke ranges in price from 8 to 12 cents per bushel; coal, \$3.50 per ton; common labor, 50 cents to \$1; skilled miners and furnace men, \$1.25 to \$1.75 per day. With above prices of labor, etc., and proper mining and furnace plant, copper quite the equal of Lake in smoothness, ductility, tenacity and firmness, can be made for seven cents per pound.

From the foregoing review of this subject, we may safely conclude that we shall be able in the coming time, not only to supply our own home market with copper, but also be able to furnish other countries with all they may need. Of course we may anticipate fluctuations in price, and there will be seasons when no profit can be made in producing, especially by those concerns that are badly located and poor-

ly managed. But, like iron and its products, sooner or later, the world will consume all the copper we can make, and we shall be the greatest producers and consumers of this metal on the globe.

Personals.

MR. F. H. WILLIAMS made a trip to the Mascot Mines last week.

MR. A. M. CHEEVER, editor of the New England Farmer, visited Maine last week.

WM. T. PEARSON, Esq., of this city, has gone to California on a trip for his health.

REV. JAMES C. MCN. JOHNSON has accepted a call to the Congregational Church in Blue Hill.

CAPT. G. C. GOSS and A. G. PAGE, Esq., of Bath, are interested in a promising iron enterprise at Alexandria, Va.

DR. G. P. LOMBARD, of Belfast, has gone to New Mexico to examine some of the mines of that marvellously rich territory.

MR. HARRY B. PARKER, of Blue Hill, was in Bangor early in the week and made a pleasant call on the MINING JOURNAL.

MR. C. H. HAMMATT, formerly of the Kenduskeag National Bank in this city, is now a mining stock broker in New York and his office is at 51 New Street, Room 8.

CAPT. BENJAMIN THOMPSON, of this city, arrived in his ship Great Admiral at New Tacoma, Washington Territory, on the 21st. The trip from Philadelphia was made in 112 days, being a very much shorter trip than ever before recorded.

ALEX. DEL MAR, the well known geologist, has completed an examination of certain gold mines of Brazil, for European parties, and sailed from Rio Janeiro recently for London via Spain, where he will examine and report on the old silver mines of that country.

MR. C. E. ULMER was in the city yesterday in the interest of the Continental Electric Light Company for which he has the right for the State of Maine. Mr. Ulmer is enthusiastic in regard to the many advantages of this light and it is his intention to introduce it into the leading Maine cities.

MR. PAUL R. SEAVEY, City Editor of the Bangor Daily Whig, died on Sunday last after a brief illness. The deceased was a thorough and experienced journalist, a bright and talented writer, and an orator of much eloquence. Mr. Seavey's untimely demise is universally regretted in this community.

M. DONELAN, of the Sunburst Copper and Silver Mining Company, was in Bangor several days during the latter part of last week and gave very encouraging reports in regard to the Sunburst. The ore exhibited is very good and shows decided improvement over that found near the surface. Mr. Donelan is deserving of much praise for the creditable and economical manner in which he has conducted operations. The Sunburst is the only Maine mine in which English capital is much interested and it is gratifying to have our friends across the water become interested in a property with such a promising prospect. It is expected the Sunburst stock will soon be listed on the London Stock Exchange.

The MINING JOURNAL on Wednesday received a call from Mr. L. STAPLES formerly of Maine but now engaged actively in mining operations in New Mexico. Mr. Staples has returned to the Pine Tree State on a brief visit to friends and in a few days will leave again for his new home in the West. He is located at McGregor City on the Rio Honda, 18 miles from Los Ranchos de Taos and about 75 miles from Santa Fe and is engaged in operating a mining property which has been named the Dora Newell. The vein was 2 1-2 feet wide on the surface and at a depth of 60 feet in the shaft the vein has widened to 8 1-2. The ore is silver and some assays by the well known assayers, Varden & Varney, give very high results. The Dora Newell claim was discovered by a nephew of Mr. Staples. They also have an interest in valuable placers distant about 27 miles from McGregor City on the Aurora Honda. Mr. Staples is very enthusiastic in regard to the future possibilities of New Mexico.

Dips, Spurs and Angles.

—A man is like an egg. You can't tell whether or not he's good till he's broke.

—A little Maine girl said it was "awful cold" one day last week, "ten feet below Zion."

—St. Louis wants a branch mint. A bill to establish one there has been introduced into Congress.

—The next blast at Hell Gate will cover a field of about nine acres. The first explosion was a little affair, affecting only some two and five-eighths acres.

—The New York plumbers are to have a paper. Probably one of the craft was called to mend a pipe in a newspaper office and has taken the establishment for his bill.

—"If this coffee is gotten up in boarding-house style again to-morrow morning, I think I shall have good grounds for a divorce," said a cross husband. "I don't want any of your saucer," retorted his wife, "and what I've sediment."

—"Mr. Brown is not very young, but Clara says he is pure gold," remarked Matilda, speaking of Clara's matrimonial choice. "Yes," said Sarah, "I know that old gold is quite fashionable, but I prefer to take my gold while it is young."

—In round numbers the following figures represent the weight of a million dollars in the coin named: Standard gold coin, 1 2-3 tons; standard silver coin, 26 3-4 tons; subsidiary silver coin, 25 tons; minor coin, five-cent nickel, 100 tons.

—The News-Democrat, of Gunnison, Col., contains the following announcement over the signature of Mrs. Julia Garrahy: "A liberal reward will be paid by Martin Joseph Garrahy's wife for the address of Martin Joseph Garrahy, if living. If dead, she would also like to know, as she knows a good Irishman who would like to marry her and father his orphans."

—The Keene Sentinel says Charles Ball of West Swauzy, N. H., while digging around a cherry tree in his yard a short time since brought to light a badly rusted hatchet, which bore on one side the initial letters G. W., and on the other side the figures 1741. This is a wonderful story. It looks as if not only the little hatchet of George Washington, but also the lie that he couldn't tell, has been found by Mr. Ball.

—Oh dear? What is this? This is a Winze. What is a winze? It is a hole in the Ground Which cannot Get out. What is it For? For the Superintendent to Telegraph about.

What does He say about It? He says, "Winze advanced 8 feet last week, all in ore." Does the Winze advance Eight feet Every week? You bet. How long can it grow To be? Somewhere in the Neighborhood of Four miles. What happens Then? The mortgagee forecloses on the Mine, buys it in Cheap, and the Superintendent gets a new job.—[Mining Primer.

—There is no country in the world growing richer and faster than this. The rate of interest in wealth is two millions of dollars a day. The annual increase of wealth in the United States is estimated at eight hundred and twenty-five millions, while the annual accumulation in Great Britain is three hundred and twenty-five millions, in France three hundred and seventy-six millions, and in Germany only two hundred millions. Annual incomes reach the highest averages in this country and Great Britain—one hundred and sixty-five dollars.

—The Tucson Star makes the statement that "not a single newspaper in Arizona pays more than two per cent. on the investment and a reasonable salary to its proprietor. Probably not more than three do as well as this. Out of the eighteen journals published in the territory, not more than five are on a legitimate paying foundation." The reason given by the Star for this state of affairs is that there are too many papers for the number of inhabitants; people are compelled to divide their support among so many that they cannot do full justice to any one.

—Mount Katahdin was first ascended, so far as is known, in 1804, by a party of seven gentlemen from Bangor and Orono, with four boatmen, including two Indian guides. The second ascent was made by Professors Bailey, of West Point, and Keely and Barnes, of Waterville College, in 1836. In September, 1846, Thoreau penetrated to this remote mountain. All these ascended on the west side. In 1846, the Rev. Marcus R. Keep, a pioneer preacher in Aroostook county, made his first visit to Katahdin from the eastern side, and in 1848 marked the first path ever known to the mountain. For this service the Maine Legislature afterward granted him 200 acres of land, which he located south of Katahdin Lake. By this course, in 1849, went the first women who made the ascent, Mrs. Elizabeth Oakes Smith and a lady from Bangor. During the last twelve years, Prof. Hamlin, of Cambridge Museum of Comparative Zoology, has made five excursions to the mountain, and has explored the region more thoroughly than any other man. Keep's path follows the valley of the Wassataquoik stream, which flows down from Katahdin, to the East branch. The other routes ascend the West branch from Mattawamkeag, descend from Moosehead lake, or strike across from Brownville, but all reach the mountain by a common trail from the west. Prof. Hamlin's spelling of the name, Ktaadn is given on the authority of J. H. Trumbull, and doubtless represents the Indian word more accurately than the Anglicised form Katahdin. Mr. Trumbull interprets the name "greatest mountain."

—The Lewiston Toothpick Club has devoted its sessions, of late, to a discussion of weights and measures,—the Ross case and other soul-stirring themes, which have come before the convention, having become rather stale. What has stuck the members of this more or less ancient and honorable association, is the weight of a cubic foot of cork. The knowing ones have had an amusement fund in the ridiculous guesses of the uninitiated. A cubic foot of cork of average density weighs 15 pounds, while one would naturally think that as many ounces were nearer the weight. The members of the venerable order of toothpicks registered the most of their guesses in ounces, and those who digressed a little way into the pounds were thought wild. The leather medal was won by a man who guessed 14 ounces. In its efforts to diffuse practical knowledge and exalt the arts and sciences, at the expense of profitless gossip, the Toothpick Club is to be seconded by all well-disposed members of the community.—[Journal.

In the Maine Woods.

THE PROGRESS OF THE PINE TREE STATE'S KING INDUSTRY—THE WEALTH DERIVED IN THE VARIOUS YEARS FROM THE FOREST PRIMEVAL—THE SUPPLY OF LOGS, PRESENT AND PROSPECTIVE.

Among Maine's many industries, the lumber trade stands yet pre-eminent in magnitude and importance over all; and, judging from the great amounts cut every year, the occupation of the logger is not by any means gone.

The business is as old as the city itself, and was the foundation stone of this flourishing eastern metropolis. The amounts cut have varied greatly in the past fifteen years, owing to the constant changing of the circumstances which regulate the price of lumber, and, consequently, the extent of logging operations. In 1872, the largest shipments on record from this port were made, the total export being 246,453,619 feet. The amount has been different every year since, and in 1876 declined to 115,121,191 feet. Since then the shipments (or survey, which amounts to about the same thing,) have gradually increased until, in the season of 1881, the output of the port amounted to 154,348,797 feet.

This it will be observed is nearly 100,000,000 feet behind 1872, but those were the "palmy days of the Penobscot, and their immense lumber business will probably never again be reached. The relative business of the past three years may be estimated from the following tables: Lumber surveyed at the port of Bangor for the last quarter of the year 1881, as compared with the same period in 1879 and 1880:

	1879.	1880.	1881.
Green Pine.....	2,184,190	3,002,236	5,493,009
Dry Pine.....	2,946,444	2,844,823	6,915,794
Hemlock, etc.....	2,964,891	3,761,456	4,712,579
Spruce.....	21,924,970	26,341,827	23,450,504

30,020,495 35,950,342 42,572,887

Full amount surveyed in 1881, as compared with the amount surveyed in 1879 and 1880:

	1879.	1880.	1881.
Green Pine.....	9,687,921	9,533,484	19,191,164
Dry Pine.....	8,222,394	8,073,167	14,540,927
Hemlock, etc.....	12,695,220	14,208,737	15,912,159
Spruce.....	91,407,627	91,573,149	104,701,527

122,562,262 123,451,537 154,348,797

It will be observed that the greatest comparative increase is in green pine, which is over 190 per cent. larger in 1881 than in 1879. The survey of dry pine in 1881 was 75 per cent. larger in 1881 than in 1879, the hemlock 25 per cent. larger, and the amount of spruce shows an increase of 14 per cent. over 1879. The increase in the total cut was 31,786,535 feet, or over 25 per cent. The season of 1880-81 was very favorable to logging operations, and, although the lumbermen were on the anxious seat regarding the drives during the early part of the season, copious rains eventually brought every log through, with the exception of a few in Pleasant river which became mixed up with Palmer's rear drive. The logs were all got into the boom in good season, and the mills worked busily all through an exceedingly long season, the longest on record, we believe, and our docks presented a busy appearance all summer. Prices were good,—nothing extra, however, on account of the large supply. Random spruce sold at prices ranging from \$11 to \$15 a thousand feet, according to the time and attendant circumstances.

Freights secured and maintained a sharp advance, and the opening prices this spring are likely to correspond to the prices of last fall. Boston freights, which had been down to \$1.25 per M on spruce in 1880, ranged in 1881 from \$1.75 to \$2.50, the average being pretty near \$2; and New York and Sound figures were correspondingly high. Wages of river laborers and stevedores also advanced, and, all-in-all, it was the most prosperous season for a long time. Many of the mills, above and below, ran until late in the year, and the season of navigation was so long drawn out that of all the manufactured spruce sawn, but about 1,000,000 feet remained unshipped at the close of navigation, Jan. 2, 1882, against 6,000,000 feet in the fall of 1880. The overstock of logs, however, was a great deal larger than in the previous season, as besides the large cut, many old logs were brought down last spring, making an unusually large stock.

It is estimated that there are 65,000,000 feet of logs now on hand in the booms or "shingled up" along shore, against 40,000,000 feet one year ago. The most interesting thing just now, though, is the progress of this season's operations, and their probable extent. The season at best has been a poor one, and even though the hauling should continue good all through March, the cut cannot be large, on account of the month to six weeks of the early winter, which, through lack of snow was totally wasted by the loggers. December 1st is supposed to be the beginning time for lumbering operations, and last fall, as

usual, the teams and their great crews of axemen went into the woods, expecting to begin work very soon. But the snow did not come, and days and weeks and finally the whole month of December passed without an inch of snow or a stroke of an axe. Things looked more desperate still when even the middle of January found many camps with bare ground.

The snow did come, at last,—all in a bunch, as the wood cutters said—and during the latter half of January and that part of February passed, operations have been pushed with great vigor. The crews that came out in December, disgusted at the weather, have all gone back and large reinforcements have been sent in. The hauling is reported to be good everywhere, although the late snows were not as heavy in the woods as in this city and vicinity.

West Branch operations will be pretty near as large, probably, as those of last year, while the fall off in the aggregate will not be as large as was at first anticipated. Palmer is doing a big business at the "Gulf" and East Branch operations are of respectable size. On Chesuncook and Moosehead waters we hear of fourteen concerns at work, employing 49 teams. Their aggregate cut will be about 10,000,000 feet, spruce, principally, with some pine and hemlock. At last accounts they had a foot of snow and the hauling was good.

On Passadumkeag waters, thirty operators employ 143 men, 112 horses and 48 oxen, getting spruce, pine, hemlock, cedar and juniper. The general impression among those acquainted with lumbering matters is that the cut will reach 90,000,000 feet by March 1st, and that, should the hauling continue good through March, the total will be swelled to 125,000,000 feet. This amount, with the overstock of 1881, amounting to 65,000,000 feet would give us a total of 190,000,000 feet for shipment the coming season. The quantity of lumber available for shipment, whatever the extent of woods operations, depends, of course, upon the pitch of water in the driving courses during the spring and early summer, and consequently, all estimates of the season's work made now are subject to changes.

Assuming, however, for illustration's sake, that the whole probable cut of 125,000,000 feet is driven to market, then, with our surplus, as above stated, we would have 190,000,000 feet for shipment. Then, supposing the shipments were the same as those of last year—154,000,000 odd—there would still be a reserve of about 35,000,000 in the log, nearly the same amount as was left over in the log in 1880. One hundred and fifty million feet of lumber will furnish loads for 900 lumber coasters of average size; and the disbursements of money attendant upon the various handlings of this vast amount of lumber would be something enormous.

There are many movements now on foot to improve some of the many manufacturing privileges offered by the myriad falls and cataracts which sound their perpetual anthem amid the lofty pines and stately spruces of Northern Maine, and which have remained unrecognized and unthought of, idling away their giant strength against rocky beds amid the surrounding riches of timber which have been transported all these years to distant places of manufacture while a large part of the work might be profitably done amid the very shadows of the forest primeval.

Last fall, Messrs. Cutler & Eddy, of this city, formed a partnership with F. R. Burpee, Esq., to run a steam and water mill at Van Buren and to develop the valuable resources in the vicinity. The mill has been running all winter, and its eight shingle and two clapboard machines and rotary saw will turn out 20,000,000 feet of shingles and 300,000 to 400,000 feet of clapboards for their season's work. These vast amounts of short lumber are sent steadily forward to this city, by rail, and are a considerable addition to the city's short lumber business. The product of this mill was formerly handled by Boston and Providence parties, but it will now be controlled here. Messrs. Cutler, Eddy and Burpee have a large crew getting out cedar for the mill.

At the mouth of the Piscataquis river, in the town of Howland, another great operation is going on. It is that of the Searsport Spool and Block Co., who control 9,000 acres of land near Schoodic Lake, connected with the Piscataquis river by a good driving stream. On this large area, the company are carrying on a large operation for various kind, of long lumber but principally for white birch timber, which is sawn into spool stock. The force consists of 84 men and 42 horses, and the cut of birch timber will exceed 8,000 cords. A dam 850 feet in length has been built across the Piscataquis at the falls near the mouth, and a fall of 9 feet, or a power exceeding 1300-horse, is obtained to drive the wheels of the new 45x93 feet mill erected at the same time as the dam.

The new mill of Wm. T. Pearson & Co., building at West Great Works, on the site of the one destroyed by fire last spring, is about completed, and is a superior mill in all respects. The sawmills at and below this city all did a good business last year, and as orders are not liable to be scarce and logs

surely not for a few months, the coming spring must witness genuine activity among the red shirted legions, and the promise is fair of a prosperous season throughout, our famous spruce joining hands with its great twin export, our unequalled ice, in making a paying year for all of our working people and a bright page in the business annals of the Penobscot.

Nova Scotia Gold Mines.

[Bullion.]

A very noteworthy instance of the union of enterprise and energy resulting in a well merited success or rather a series of successes, is shown in the operations during the last twenty months of the firm of Messrs. Adams & DeCamp, of this city, in the Province of Nova Scotia.

There is comparatively ignorance about this province among our best business men, even those who consider San Francisco or London, at a distance of 3,000 miles, as only just out of speaking distance, telegraphing and cabling to their correspondents in those cities a dozen times a day; while Nova Scotia is, in a direct line from New York, about 650 miles and by rail less than 1,000 miles; the trip to Halifax taking about 46 hours.

At the beginning of the summer of 1880, Mr. E. F. DeCamp, of large experience as an operator and practical miner, returned from the State of Georgia, where for a year he had been testing the capabilities of gold placer mining in that State. He happened to see some specimens of gold quartz that the holder said came from Nova Scotia. He discussed the subject with Mr. H. K. Adams, who up to this time, had been interested in Western mines. The result was that with only an idea where Nova Scotia was Mr. DeCamp started away on a prospecting tour. At Halifax he was told the locations of the different districts where gold had been discovered and at all worked. During the several months that followed of his stay, he made an examination as thorough as possible of the various districts, as regarded the general formation, thickness of the auriferous lodes, yield per ton of quartz as far as ascertained, methods of working, etc., etc.; also the reports to the Government by sworn returns of the operators. He found his original belief thoroughly confirmed. Returning here he formed with Mr. Adams, the firm of Adams & DeCamp, for the purpose of developing, selling and operating mining properties in Nova Scotia.

The property at all developed, that had seemed to Mr. DeCamp to possess the greatest possibilities for the future was the Hall and Anderson property in the Fifteen Mile Stream district. This could not then, for some reason, be sold. But the Barton property, at Tangier, as bonded by Messrs. A. & D., was at the beginning of 1881, sold by them to New York parties, and by them incorporated into the company so well known as "Satemo;" but only on condition that Mr. DeCamp would be the manager at the mine. Shortly after this they sold this same company the mining property adjoining it immediately on the west; not only for its mining value, but because it had and controlled a magnificent water power. The property of the Satemo now extends 4,000 feet along the lodes containing as developed, the Nugget, Nigger, Big South, and probably beyond them all in value, the big and rich Kent lode.

A short time after this, Messrs. A. & D. sold to New York parties two blocks of mining areas, one in the rich Montague district, and the other in the Fifteen Mile Stream district. Then by this time the long coveted property of Hall & Anderson, in the last named district, came under their control; and they made a sale of that also here in this city to a few conservative capitalists. The original owners, with their confidence in its future, preferring to take for a great share of their interest a large block of stock in the company that was incorporated last October; the management of this, the "Hall-Anderson," was left in the hands of Messrs. A. & D., and though actual possession was not taken under the new regime until the middle of November, before the end of two months a first dividend of 5 per cent. had been paid the stockholders. Then in November they made the sale of the Lowell-McDonnell property in Caribou district, to the "Amherst" company.

Just now they have sold and are at present completing negotiations of the mining property contiguous on the west to the "Satemo" Co. at Tangier, known as the "Burlington" property; and also the J. H. Anderson mining property in Lake Catcha district. These many and rapid sales, while largely owing to the ability, industry and thorough knowledge of these pioneer dealers in Nova Scotia gold mines in this market, were mainly due to the unquestioned merits of the mines themselves. The Government of Nova Scotia makes official reports of their gold districts from 1862 to the present. These reports which appear minute and exhaustive, show that in 18 years over six millions of dollars in gold have been taken from these mines and reported to the Government for rents and royalty, that the average yield per ton was from \$9 to \$20, and the yield per

day per man employed averaged over \$2, the total days of work in the mines being for the 13 years 3,030,883, and the yield being 310,606 ozs. of gold.

Considering that this was entirely surface work, with the crudest of implements and by common laborers without any pretensions to mining skill or education, the showing is remarkably favorable to the field. Even under these circumstances the profit on the total labor was fully one hundred per cent. But these facts really seem only an earnest of the possibilities of the Nova Scotia gold mines, judging from the extraordinary results that have uniformly and immediately followed the application of more improved methods of mining. Both product and profit, have increased in an enormous ratio, and still no deep mining has been done.

As compared with the most favored Western gold fields the average yield of the Nova Scotia ore is extraordinary, being about \$16 per ton for the whole mass crushed. In brief, it not only appears that the purchasers of these mines have done exceedingly well, but that the field is eminently worthy consideration by investors. It should be added that both labor and mining material cost here only from one-third to one-half the cost in the West.

LODES, LEADS AND VEINS.

MASCOT.—The Gorham Mountaineer says: "Col. Lawrence and other officers of the Mascot Mines were in town this week, and expressed themselves much pleased with the condition of the mine. The workmen opened a new pocket last Monday, that surpasses all previous ones for magnitude and richness of ore. It seems that the farther they get into the hill, the better, if possible, the ore."

NORTH STAR.—The North Star Mining Company's property is situated at West Hartford, Vt., and is only fifteen miles from the celebrated Ely mine. Some development work was done here last Summer, work being stopped in November, after sinking a shaft eighty feet. The company commenced work again on the 7th of this month. They own 300 acres, including the mineral rights, and is capitalized in 100,000 shares, par at \$5 each. One half of the capital stock has been put in the treasury, and none has been offered for sale, nor will there be until they are assured of success. There is another ground or shaft house, 40x25, and all the necessary tools for development. The mine is only half a mile from the Vermont Central Railroad.—[Mining Age.]

DOUGLASS.—Operations at the Douglass are being pushed with vigor. The smelting works are not now running and developments are concentrated underground.

STEWART.—Work progresses steadily at the Stewart and shafts No. 2 and 3 are each down about 125 feet. The ore continues to increase in richness and the constant widening of the ore bodies promises well for the future. The ore now being mined compares favorably with the best ore taken out of the Blue Hill camp.

HERCULES.—Everything is running along smoothly. A hoisting engine has recently been obtained.

DEER ISLE.—The Sch. Ida L. Ray is to load ore at the Deer Isle mine.

MILTON.—Making good progress in the winze of shaft No. 1, since completion of timbering; the vein is increasing in size and are now getting a better quality of mineral than at any other time. Rock continues favorable in south level of shaft No. 2, and the result is that the vein will soon be reached. The ground in No. 2 winze continues soft and are sinking rapidly.—[Bulletin.]

HARVEY ELLIOTT.—Superintendent Smith says we are down 70 feet, sinking on the vein at the rate of one foot a day, the vein is looking first rate, both in quantity and quality. We are well able to take out the water without loss of time, and everything about the mine is in first rate order.—[Bulletin.]

British Provinces.

The Halifax New Era says: "Mr. Geo. W. Stuart has just purchased on private terms, the "Friendship" mine at Montague from Messrs. H. A. Foster & Sons, with its entire plant and outfit. This is a valuable property and we congratulate him on its possession."

CANADA COAL TRADE.—It is said that this year a total delivery of some 275,000 tons of coal will be required in Montreal. The representative of one extensive coal mining interest in Cape Breton has contracted with the Montreal Gas Company for the supply of some 60,000 tons of gas coal. The Kingston

Locomotive Works are at present consuming at the rate of 30 tons of Nova Scotia coal per week, which is laid down in Kingston at 75c per ton less than Cleveland coal.—[Kingston News.]

A Provincial Exchange says: "We have been shown a promising specimen of copper ore from a deposit recently discovered in Pictou County. The ore has been submitted to T. P. Wiltshire, Assayer, of Bergen Point, New Jersey, and he has certified it to contain by dry assay 23.5 per cent. of copper with traces of arsenic and antimony. Other assayers have made it 44 per cent. copper and 5 oz. of silver to the ton. The discoverers and present owners are already in possession of some very fair offers for the property."

The Montreal Gazette of Feb. 18th, says: "This afternoon a deputation composed of Messrs. Ritchie, of Ackron, Ohio; Coe, of Madoc, Ont.; J. B. McMillan and W. H. R. Allison, of Pictou, waited upon the Minister of Customs and the Minister of Finance to ask an increase in the duty upon pig iron to \$7 a ton, the rate imposed in the United States. These gentlemen propose to erect smelting works and rolling mills at Weller's Bay, Prince Edward County, and they represent the owners of most of the rich iron beds in the North Hastings district. If the project which they have in hand is proceeded with, they will construct a branch line of railway from Trenton to the mines and erect wharves at Weller's Bay for the shipment of their products. The Ministers promised to bring the matter before the Government."

COPPER PRINCE.—The New York Daily Indicator says: The Copper Prince Mining Company was organized in this city on the 15th inst., with a capital stock of \$1,000,000, and articles of incorporation have been filed in the County Clerk's office of this county. The following are the officers of the company: President, A. H. Cragin; Vice-President, A. H. Ward; Secretary and Treasurer, C. J. Bushnell; Trustees, A. H. Cragin, A. H. Ward, F. W. Allin, C. J. Bushnell, Sheppard Homans, D. W. Douthitt, and Joseph H. Parsons. A. H. Cragin is a former United States Senator from New Hampshire. F. W. Allin is the Secretary and Treasurer of the Newfoundland Railroad Company. A. H. Ward is the General Agent of the Erie Railroad. C. J. Bushnell is the Secretary of the Anglo-American Dock Company. J. H. Parsons, D. W. Douthitt and Sheppard Homans are well-known capitalists of this city. This property is situated in Nova Scotia, on the Bay of Fundy or Digby Gut. The vein of ore is about twelve feet in width, and the license from the Government covers five square miles; on this, within one year, the company can prospect and lay out one square mile, which can be two and one half miles on the vein. The land is most favorably situated for cheap and convenient working, the vein cropping out on the surface and showing rich in native copper; the elevation is about 500 feet, allowing plenty of room for a waste dump, and also a self-acting tramway to ship ore from the mouth of the shaft to tide-water. Vessels of large size can lie close to the shore. This property is situated but a short distance from the city of Digby. With good management this property should be made to pay fair dividends on the capital invested, as the ore runs over 3 per cent. in native copper, which can be treated by simple concentration and smelting without having to use the expensive processes required to reduce sulphureted ores to ingot copper.

HASTINGS IRON DISTRICT.—A most important arrangement has just been completed for the development of the mineral resources of Central Ontario. For many years past Mr. William Coe, of the village of Madoc, has been patiently and persistently exploring the mineral regions of North Hastings, with a view to the discovery of the locations of the deposit which nature has so bountifully scattered there. During these years, he has secured many thousands of acres located upon the iron range crossing several townships, and already a number of the largest and richest iron mines in the world have been discovered and satisfactorily developed upon the property. Several of these have been visited and personally examined by Professor Chapman, of Toronto University, who reports that he found the ores to average from 66 to 68 per cent. of metallic iron, with entire freedom (fact corroborated by several eminent chemists in the United States) from titanium. Railway communication only is needed to develop a mineral industry in Central Ontario as great as that prevailing in the iron regions of the south side of Lake Superior. That requirement is now to be supplied. The great rail-mills of the Central and Eastern States are constantly looking for supplies of these high-grade ores other than Lake Superior. The consumption of them has grown immensely since the discovery of the Bessemer process of making steel, and, as only a few parts of the iron-producing regions yield pure and rich magnetic ores, they are eagerly sought out. Mr. Coe has sold a three-fourths interest in all his Hastings lands and mines to the proprietors of the Prince Edward County Railway, Messrs. S. J. Ritchie, of Akron, O.,

and J. B. & G. W. McMullen, of Picton. The railway will be at once built northward from Trenton to the townships of Wollaston and Tudor, where the largest of the mines are located. Ample docks of the most approved pattern will be built at Weller's Bay, on Lake Ontario, where the depth of water attainable is from fourteen to twenty feet. They have men now working the Wollaston mine, one of these properties, and 2,000 to 3,000 tons per week will be taken from it pending the completion of the railway, and two or three other mines will be operated on an equally large scale. Unlimited quantities of the ore are asked for by the American rail-mills. In four of these mines the veins are over 100 feet wide, from 1,500 to 2,000 feet long, and are elevated from 80 to 150 feet above the level, showing many millions of tons in actual sight. Mr. Ritchie, the President of the railway company, is making arrangements for the erection of a Bessemer steel rail-mill at the Lake Ontario terminus of the road, apparently the most appropriate place in Canada, as these are the only deposits of magnetic ore yet discovered perfectly satisfactory in quality and ample in quantity for the purpose. The road and docks will be completed as fast as it is possible to build them, and shipments will be begun early next fall. It is said to be a fact that no Lake Superior mines, with the possible exception of the Republic, at all compare with these in extent, and none surpass them in quality.—[Chicago Tribune.]

Croppings.

[Compiled, Condensed and Confiscated from our Exchanges.]

Leadville mills and smelters have more ore than they can handle.

The reported copper discoveries on the north shore of Lake Superior are located on the American side of Pigeon River.

The Laramie Boomerang says Wyoming has millions of tons of iron and copper ore and coal enough to warm a continent.

The Masconia gold, silver, and copper mining property at Lebanon, N. H., was sold to a Syndicate at Concord on Friday last. The company was organized with Sylvester Marsh of Concord, as President, and Geo. E. Jenks of Concord, as Clerk.

Iron in the highest forms exists in the central and western parts of North Carolina. Extensive mines are now being successfully operated, and new ones being opened. The greater part of their product is worked up outside of the State, there being but few foundries and no rolling mills of large capacity in the State.

The directors of the Champlain Valley Agricultural, Mining and Mechanics' Association and the directors of the State Agricultural Society met at Burlington, Vt., recently, to consider the feasibility of union. A committee of two from each society was appointed to meet in March, when the question will be definitely settled.

The Bullion (Wood River) Scorer says: The new Mayflow-er Company have arrived, and have started men grading for the hoisting works which will be here in a few days. The company intended to bring a preacher, but he was arrested at Laramie City, on a warrant issued at Chicago, on a charge of bigamy—he having several wives in various parts of the East.

The Esmeralda (Nev.) Herald says the smelter at the Ludwig & Carter Copper Mine is now turning out a little over 100 pounds of copper every half-hour, which for its size is considered pretty good work. Mr. Jones, the smelter, has proven his water jacket invention a success. It does away with the use of fire-bricks and obviates the necessity of stoppages every few days to replace them. Last week a car load of copper bullion was shipped to San Francisco.

BORACIC ACID WORKS.—The Esmeralda Herald (Aurora, Nevada) says that teams are now engaged on a contract to haul one hundred tons of "cotton balls" from the old Columbus marsh to the Phoenix Chemical Works at Columbus, owned by Wm. M. Purdy. There are a number of Chinamen employed at the marsh gathering the borax "cotton balls." The works, though small, are a decided success, preparing the raw material to a fineness of 95 per cent. for shipment.

The lead product of the carbonate district of Colorado was so much larger last year than in 1880, that the prices obtained for this metal cannot fail to surprise all. Two years ago the entire lead consumption of the country was estimated at less than 90,000 tons. During the calendar year just closed there were shipped from Leadville alone, in base bullion, 33,101 tons of lead. There were also shipped 15,600 tons of ore, which at the lowest estimate, contained 4,000 tons of lead, swelling the shipments to 42,101 tons, and for the entire State not less than 50,000 tons.

EASTERN INDUSTRIES.

There are five shoe factories in Freeport, all of them doing a large business.

The Castine Brick Co., made about 500,000 last year and have facilities for a large business.

The Augusta shoe factory now employs some 100 hands, and ships about 36 cases a week.

The Clinton Croquet Company have started up a part of their machinery and have commenced shipping to different parties.

The corn factory at Paris is employing eight men, this winter, making cans. Thirty thousand have been already made this season.

A new woolen mill at Madison Bridge, Somerset County, has just commenced work. When in full operation it will furnish employment for 75 hands.

The affairs of J. Winslow Jones have been so far settled up that many of the packing factories along the Maine coast will start up once more in April.

Wolff & Reising, at Milbridge, have about 50 hands at work making cans. They will use this winter about 100 tons of tin, lead, etc., in the can business.

The number of cigars manufactured in Maine during 1881 was 3,995,579; 94,849 lbs. of tobacco was used and the Government tax amounted to \$23,973.47.

The Bay of Fundy Quarrying Company in Harvey, N. B., now employ seventy men and very extensive operations will be conducted during the coming summer.

A new slate company has been organized by men of Castleton and Fairhaven, Vt. The new company have bought a quarry on Scotch Hill, Vt., and will begin work at once.

The Maine Farmer says that the inmates of the jail in Augusta are now occupied in manufacturing men's kip brogans, a class of goods that will meet with a ready sale.

Mr. C. O. Kilburn has purchased the Walker mill privilege near Bridgton tannery and proposes during the coming summer to erect a building, size 50 by 30 feet, for a grist mill.

Machinery will soon be in position in the new mill of J. M. Getchell at Berry's Mills, Carthage. Ash timber will be used and the specialty manufactured will be spade handles.

The Bodwell Granite Company have about twenty men employed this winter at their red granite quarry in Jonesboro. The Jonesboro Lumber Company employ now about 80 men lumbering.

John Caskley, of Minot, has taken the contract to make 600,000 cans for Burnham & Morrill, for next season's crop of sweet corn. He employs about eight hands who turn out about 19,000 cans per week.

The Newfoundlanders are having quite a prosperous season. The catch of fish was not so large as in past years, but prices have been unusually high, and the railway furnishes abundant work cutting sleepers at fair wages.

C. A. Dyer & Co., of Portland, have leased the premises formerly occupied by the Portland Packing Company at Oceanville, Deer Isle, and are arranging to do a large business the coming season in canning lobsters, clams and mackerel.

In the Hurricane Granite Co.'s office in this city is a fine photographic view of a train of 30 cars, in the yard at Portland, loaded with pavings from Hurricane Island, and bound for Chicago. The photograph is well taken and is worth seeing.—[Rockland Courier.]

The shoe manufactory of L. H. Day, Biddeford, employs 100 workmen and does an annual business of between \$125,000 and \$150,000. 1500 pairs of shoes are turned out every week. The goods are sold throughout New England, New York, and in all the large cities West and South.

The soapstone business is an important industry at Chester, Vt. Holden employs fifteen or twenty men getting out slabs to ship to the New York market. Smith & Butterfield of Cambridgeport, Mass., are prospecting in the northern part of the town with a view to opening a quarry.

The shoe manufacturing establishment of Messrs. Dearborn & Day, Biddeford, employs a force of 100 hands, and is doing an annual business of about \$130,000. The firm make a specialty of ladies', misses' and children's fine shoes, which meet with a ready sale throughout New England and the West.

Eighteen hundred and thirty-seven cases of shoes were ship-

ped from Auburn last week. The manufacturers of men's goods are driven to such an extent that many of the hands are working nights. Shipments of women's goods are light, and probably will be, for some time.—[Lewiston Journal.]

The Republican says Messrs. Crockett & Gould have put up a woolen factory on Otter Brook, in Caribou, about a mile from the village. They have recently put in a carding mill, three looms, spinning jack, fulling mill, and press. They propose to add to the mill and machinery as the business may demand.

The following are the cotton factories that exist at present in Canada; Kingston, 10,000 spindles; Lybster, 12,000 spindles; Dundas, 17,500; Cornwall, 25,000; Hudson, 80,000; Valleyfield, 31,000; St. John, 15,000; Halifax, 20,000; Moncton, 10,000; Windsor, 10,000; Calais, 20,000; Coaticook, 12,000; Chambly, 6,000; St. Henry, 27,500; Stormont, 20,000; Hamilton, No. 1, 6,000; No. 2, 2,000; Brantford, 10,000.

The Ellsworth Foundry and Machine Shops are now completed, a part of the machinery is in place and business has already commenced. The builders have done their work faithfully and the buildings present a very attractive appearance. The new Company will have facilities for transacting a machinery business second to none in the Eastern part of the State and we wish them great success in their enterprise.

The lime business is fairly active considering the season, and shipments are made almost daily. The Cobb Lime Co., has several kilns afire and have shipped several loads by rail and water during the week. Interviews with several manufacturers disclose a confident feeling, and a general belief that the coming season is to be the best enjoyed by this industry for many years. They are all in good condition to meet the rush when it comes.—[Rockland Courier.]

The firm of Hathorn, Foss & Co., are doing a business of large proportions at their steam mill at Lambert Lake in the manufacture of shooks for fruit boxes. They also have an extensive business at Lagrange where two of the junior members of the firm reside. Obed Foss, of the firm, is in Florida contracting for shooks and they also have an agent in Italy to whom they ship large quantities. Their present force at Lambert Lake comprises 40 men, 28 horses and 8 oxen.

The Commercial says the Penobscot Chemical Fibre Co., composed mostly of Boston gentlemen, have purchased a portion of the water power at Great Works, of W. T. Pearson, and will begin in April to erect a pulp mill, with the intention of having it in working operation in September. The capital of the company is \$200,000; they expect to lay out about \$150,000 in the new building and machinery. The mill then in operation will turn out twelve tons of dry pulp per day, and will employ about 75 hands.

Mr. C. B. Harrington, of Bath, has on the stocks a fine steam yacht for parties in New Bedford. She is 73 feet long, 13 feet beam, 5 feet 6 inches draught, and will be schooner rigged. The cabins will be neatly furnished and she will be ready for launching early in May. This firm is also building a keel schooner yacht for Boston parties, to be 44 feet long, 14 feet beam, 6 feet 10 inches draught. She will have an iron shoe on the keel of 3000 pounds weight. It is expected that she will be reckoned among the "flyers."

The Rockland Courier says: The cement works will start up for the season in about a month. There are about 1000 barrels of cement on hand, enough to supply home consumption. It is probable that the capacity of the works will be greatly increased during the coming year. We are manufacturing a class of cement vastly superior to the imported, and in fact, any of the domestic cements, and its future sale must necessarily be large. Facilities for its manufacture are unlimited, and the prospect of this industry is flattering.

An organization called the Belfast Block Company, with a capital stock of \$5000, was organized at the foundry Tuesday morning. The object of the corporation is the manufacture of vessels' blocks, and its factory is on the upper floor of the foundry building. The following are the officers: President, Dr. J. G. Brooks; Vice President, Wm. H. Hall; Secretary and Treasurer, O. J. Hall; Superintendent, Isaac A. Murch; Directors, John G. Brooks, W. H. Hall, W. A. Whitten. Work has started up, and there is a prospect of a good business being done.—[Journal.]

An interesting industrial establishment in Castine to visit is the line factory located on Pleasant street. It is owned by J. W. Dresser and the Superintendent, Joseph Surry, has had fifty years' experience in the business and is constantly working up to the highest perfection in the art. The work is done by steam power and the building is 450 feet in length. Thirteen hands are employed and all kinds of fish lines are manu-

factured which are packed in bales for the Boston market. The mackerel lines are made out of the best Sea Island cotton and so prepared that they will not kink in using. This is the only factory of the kind in the State.

The Kingston (Ontario) Chronicle and News says that the Woolen Mills at Napanee are now working on an order for 3,000 pairs of white blankets for Kingston, Montreal and Quebec firms. At present forty pairs per day are being turned out, but two more looms have been ordered and are now on the way, which will increase the capacity of the mills to sixty pairs per day. The blankets made are splendid specimens, equal to any produced in the Dominion, and better than the imported blankets, which are made of cheaper wool. This is a thriving establishment, whose existence is directly due to the substantial encouragement afforded by a protective tariff.

Work upon the big grain elevator at Halifax is to be commenced at once. The New Era says: P. S. Archibald, Esq., Engineer-in-Chief of the I. C. R., has, by direction of the Minister of Railways and Canals, recently made a tour of inspection of all the United States grain-shipping ports, examining elevators and the most approved shipping methods. On his return he submitted plans for the Halifax elevator to Sir Charles Tupper who has approved them. In this connection we note that George Taylor, Esq., General Freight Agent of the I. C. R., has gone to Europe to perfect arrangements there and in Great Britain with receivers and shippers of freight so that their good for and from Canada at least will pass over our own lines, and be landed in Halifax.

Ice harvesting forms the principal winter occupation at Prospect Harbor in Gouldsboro. At the present time some 85 men and 15 horses are at work gathering the glistening harvest. The business is prosecuted by a company composed of Cherryfield gentlemen, among who are G. R. Campbell, A. L. Stewart, and J. W. Coffin. The company was organized 5 years ago. The natural advantages for ice cutting here were by no means great. They found a pond about a mile from tide water with a little stream meandering across the interval. They constructed a dam across the stream thus flowing a new pond within a few hundred yards of the salt water, dredged the channel so as to float large vessels, built a wharf and an ice house 140 by 160 ft. During the first few years of its existence the company was not successful, but in 1880 they made up for past losses, and paid a handsome dividend. Encouraged by this they are preparing this winter to cut more ice than ever before. They have ground cleared and leveled for a new ice house, have kept some 20,000 tons clear of snow and have facilities for cutting and storing about 1,200 tons per day.

BRICK MAKING IN ORLAND AND PENOBSCOT.—On the river road leading from Orland to Penobscot village, we find the following brick yards which turned out last year as follows: Andrew Ginn, 400,000; F. B. Gross, 600,000; A. W. & A. B. Hutchings, 500,000; J. M. & F. S. Bray, 350,000; John H. Marks, 250,000; and Fred. B. Leach at Orland Point, 500,000. In Penobscot, on the shores of the bay, W. P. Leach & Co. made last season 350,000 and intend to double their product this year; W. S. Hutchings made 400,000; Wardwell, Leach & Sellers, 525,000; Bowden & Grindle, a little short of 1,000,000, and David Grindle, 250,000. It is expected that the number of yards and production will be increased considerably the coming season in the localities named. To burn the above bricks required about 2,250 cords of wood, worth from \$3.00 to \$3.25 per cord. It is estimated that it takes about seven cords of wood to burn 16,000 of brick. The residents on the Penobscot river road in Orland and Penobscot are a very busy people, and in addition to brickmaking and managing their farms, cure a large quantity of bank fish yearly, take care of their salmon and alewife weirs, and smoke from 100,000 to 400,000 of the latter fish each season. Their smoke houses are mostly built on the banks of the river.

FOREST CITY.—A correspondent of the Lewiston Journal gives the following description of this busy little village: Forest City is not, like the scripture city, built on a hill, but it is a city surrounded by hills; a little hamlet in the town of Eaton, surrounded by forests, which gives it its name. The waters of the St. Croix divide the place into Forest City, Maine, and Forest City, New Brunswick, having two large schools, but one post office and one interest. The place has grown up with the interests of the Shaw Bros.' tannery. This tannery uses about 10,000 cords of bark annually, and turns out about 800 tons of leather, and gives work, directly and indirectly, to some four hundred men. The entire care of this enterprise is under the direction of Mr. F. H. Beatham, whose extensive business leaves him in no danger of rusting out for want of exercise. The Shaw Bros. have five tanneries and three extract works in Maine, fourteen tanneries and three extract works in the Dominion of Canada, and three tanneries and one extract works in New York.

Taking Forest City as an average, the entire industry would require about 200,000 cords of bark, and an army of over 10,000 men to do all the work connected with the making of about 23,000 tons of leather. To the honor of the company, be it said, no liquor is allowed in any of their camps, and no rum shops can be found in their vicinity.

Railroad, Steamboat and Hotel Notes.

A narrow gauge railroad is talked of between Rockland and Camden.

A meeting of the Blue Hill Steamboat Company will be held March 1st.

George Moulton, Jr., of Bath, is manufacturing a double steering wheel for the City of Richmond, similar to that in the new steamer State of Maine.

G. D. Stratton, of the Gorham House in Gorham, N. H., has perfected a lease with the Grand Trunk Railway of the spacious Alpine House in Gorham.

There is a good prospect that the Railway Syndicate bill will pass the Nova Scotia House of Assembly. The opposition, although bitter, is comparatively insignificant.

It is said if the Maine Central get control of the Knox & Lincoln they will secure a fast steamer and put her on the river between this city and Rockland to connect with the trains.

Mr. A. L. Blackman, Manager of the Newfoundland Railway, on his recent visit to England purchased eight new locomotives, and also plant and machinery for machine and car shops to be erected in St John's.

It is currently rumored that the valuable wharf property known as Foster's wharf, Boston, has passed into the hands of the Boston and Bangor Steamship Co. Foster's wharf was formerly the landing place of the Sanford steamers, which have lately landed at Lincoln's wharf.

A company has been organized in Portland, consisting of Gen. J. Marshall Brown, Hon. W. L. Putnam, E. H. Davis, Esq., and F. C. Payson, to build a grain elevator for the Grand Trunk Railway. The Grand Trunk intends to run steamers from Portland summers as well as winters.

Mr. O. M. Shaw is to retire from the management of the Fal-mouth House in Portland and this well known hotel has been leased for a term of five years by Mr. Gilson, of the St. Nicholas, New York. It is understood that about \$75,000 will be expended in refurnishing and inaugurating many improvements.

The annual report of the Sanford Steamship Company, just completed, shows that the gross earnings for last year were \$295,609.06, and the expenditures \$237,955.99, making the net income \$57,653.07. Out of this, \$20,000 has been paid in dividends, and the surplus for the year is \$37,653.07. The stockholders have ratified the change of name to the Boston & Bangor Steamship Company.

The railway tunnel under the St. Lawrence, at Montreal, is to have the following dimensions: Entire length, about 21,700 feet; open cuttings on Hochelaga side, 2,500 feet, and on the Longueuil side, 4,220 feet; actual length of tunnel proper, 14,980 feet. It is to be 26 feet wide inside, and 23 feet high. It will be lined with brick masonry throughout, except the fronts, which will have facades of stone. The arch will vary from 20 to 30 inches in thickness, according to the character of the ground to be supported.

Steamship Ontario, of the Dominion Line, sailed from Portland for Liverpool on Saturday night last. She carried eight cabin passengers and a cargo of 2,600 tons. The following articles were among her cargo: 40,550 bushels and 4065 bags wheat; 2161 packages butter; 1400 bags flour; 621 bags clover seed; 2524 pails lard; 500 bags oatmeal; 488 packages bacon; 118 packages lard; 1556 barrels apples; 5162 boxes cheese; 1750 boxes canned meat; 36 packages leather; 12 packages sundries; 265 barrels potash; 36 boxes nails; 18 cases boots and shoes; 92 cases canned meats; 500 boxes bacon and 39 chests tea. Her cargo was valued at about \$190,000.

CASTINE HOTELS.—Wilkie Darling has now a large force at work in enlarging the old Castine House. It is now 4 stories and the new ell is 68 feet in depth. The increased frontage will be 32 feet and the work being done in renovating and enlarging is all first-class. Many old historic treasures about the house will be preserved and several of the rooms will have the old fashioned fire place and brass andirons. When fully completed and furnished according to designs, it will afford business travelers and summer tourists as enjoyable a home as can be found

in the State.—The Acadian House at Castine is undergoing extensive repairs and enlargements but the plans are not yet perfected, and work has been suspended a few days awaiting for the same.—We are informed that three or four cottages will be built at Dice's Head the coming spring and that a lively bid will be made at Castine the coming season for a large inflow of summer travel. Several of our most noted mines are in near proximity and other attractions are so numerous, that all efforts to supply good quarters will be well repaid.

Nuggets.

—Ellsworth expects to have a telephone exchange soon.

—The spring term at Blue Hill Academy commences Monday, March 13th.

—A new weekly paper—"The Candid Observer," is to be started in Lewiston, by G. A. Perrigo.

—The Boston Traveller learns that the Mining Exchange has under consideration a reorganization on a new basis.

—The Dirigo Slate Quarry of Monson will be sold at auction at the office of F. O. Bailey & Co., in Portland on Friday of next week.

—The annual meeting of the Penobscot Lumbering Association will be held at the Penobscot Exchange in this city on March 7th.

—The Dexter and Moosehead Lake Stage Line has been purchased by Horatio Knowles, the enterprising landlord of the Shirley House.

—The delinquent Douglass stock will be sold at auction at the office of the Treasurer, F. H. Williams, 12 West Market Square, to-day at 11 o'clock.

—The inhabitants of No. Deer Isle and vicinity have been greatly alarmed about an animal of the wolf specie which has been seen several times. Some of the older men call it an Indian Devil.

—The Directors of the Bangor Opera House Company have elected Mr. F. A. Owen Manager of the Opera House. It is expected this new place of amusement will be opened to the public during April.

—N. P. Doe, the engraver, is prepared to engrave in the finest manner, either from photograph or drawings, views of mining properties and buildings, also bonds and stock certificates on copper plate.

—We are indebted to Capt. Henry A. Ford, of Detroit, Mich., for late copies of Louisville, Ky., papers. Capt. Ford is the gentleman in charge of the compiling of the new History of Penobscot County and he is now making a visit to Kentucky.

—The Clayton Air Compressors are widely and favorably known. These Compressors are doing effective work at the Sullivan mine. Send to Clayton Steam Pump Works, 14 and 16 Water Street, Brooklyn, N. Y., for their new illustrated catalogue.

—The auction sale in Brownville on Thursday of last week of the Bangor and Piscataquis Slate Quarry was largely attended by representative slate men. The property was purchased by Messrs. Wilbur & Story, of Boston, for \$1,000 more than the mortgage held by them.

—Patents issued to Maine inventors under date of Feb. 14, 1882, reported for us by Wm. Franklin Seavey, solicitor of patents, Bangor, Me.: No. 253687, Hiram A. Eaton, Manchester, Me., Alarm Signal. No. 253806, Alvin Woodman, Lewiston, Me., Cloth Tenting, Drying and Calendering Machine.

—The submarine cable between Eastport and Grand Menan has again given out. It has not been in good working order since the first of December. At the point where a schooner went ashore at that time the cable was so badly chafed as to be unserviceable, and all efforts to repair it have been but partially successful.

—Mr. Jere. Sullivan was quite badly injured one day last week, while at work on the dump at the Copperopolis mine. The tub used for hoisting ore from the shaft, struck him in the breast with such force as to render him insensible. No bones were broken and Mr. Sullivan hopes to be able to go back in a few days.—[American.]

—We are indebted to editor Gilman, of the Aroostook Pioneer, for copies of the Railroad Map of Maine and the Maritime Provinces recently published as a supplement of the Pioneer. This map is by far the most comprehensive and accurate of

any of the railroad maps thus far issued of this section, and great credit is due Mr. Gilman for the enterprise he has shown.

—The Portland Transcript has been publishing, in three parts, a timely article upon "Forests and Forest Culture." It is from the pen of Hon. J. R. Talbot, of East Machias, and is one of the most interesting and valuable papers relating to this vitally important subject we have ever read. We regret that we have not space to reproduce it in our columns; we shall, however, make further reference to it hereafter.

—On the farm now belonging to Otis Grindle in Penobscot a little girl who was visiting there about fifty years ago, in a frolicsome mood stuck some cranberries into the soil on the borders of a swampy place on the farm and of late years the yield of her plant has sometimes been as high as 32 bushels. Mr. Grindle estimates that with little expense he could soon double his crop. Cranberry raising is now very successful in Hancock Co. Mr. G. raised three years ago 60 bushels of shelled corn on seven-eighths of an acre of land.

New Incorporations.

The Eastern Electric Light Co., Augusta, Feb. 14, \$500,000. E. C. Allen, Augusta, President; L. C. Cornet, Treasurer. Purposes, generating heat and light by electricity and supplying the same to all cities and towns in Maine; authorized to lay pipes and make contracts and to supply the same.

Eastern Rolling Stock Co., Bangor, Feb. 16, \$500,000. Edwin Lamson, Lowell, Mass., President; Wm. H. Harlow, Bangor, Treasurer. Purposes, to carry on the business of building freight and passenger cars, etc.

Boston & Mexican Oil Co., Portland, Feb. 16, \$507,000. John M. French, Chelsea, Mass., President; Daniel T. Holmes, Boston, Treasurer. Purposes, boring for oil and doing all things necessary to carry on the business.

The Boston Stock Car Co., Portland, Feb. 17, \$500,000. Paid in \$403. President, Joel M. Holden, Boston; Treasurer, Albert W. Mann, Maplewood, Mass. Purposes, manufacturing and operating stock cars for shipping cattle and freight.

Solitaire Vacuum Rock Drill Co., Portland, Feb. 18, \$60,000. Paid in \$500. Value of shares \$20.00. Purposes, manufacturing and selling the Solitaire Vacuum Rock Drill and any and all other mining apparatus and machinery. President, Warren D. Stone, Boston; John G. Hathorn, Boston, Treasurer.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, FEB. 22, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Alouez.....	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3
Atlantic L. S.....	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Atlas.....	...	...	...	...	...	...	...	...	...	...	...	...
Blue Hill Copper.....	40c	40c	40c	40c	40c	40c	40c	40c	40c	40c	40c	40c
Brunswick.....	14	14 1/2	12 1/2	14	10	15	10	15	10	15	10	15
Calumet & Hecla.....	230	232	230	...	230	232	230	234	231	231	231	...
Catalpa.....	...	...	52 1/2c	55c	...	...	...	62 1/2c	...	...	...	...
Central.....	...	...	...	...	...	...	...	...	...	...	...	...
Copper Falls.....	...	3	2	3	1	3	1	3	1	3	1	3
Contentment.....	...	...	...	...	...	...	...	...	...	...	...	...
Douglass.....	...	...	...	...	...	...	...	...	...	...	...	...
Dana.....	...	...	...	...	...	...	...	...	...	...	...	...
Duncan Silver.....	...	...	...	...	...	...	...	...	...	...	...	...
Empire.....	...	...	...	...	...	...	...	...	...	...	...	...
Franklin.....	10 1/2	11	11	11 1/2	11	11 1/2	11 1/2	11 1/2	11	11 1/2	11	11 1/2
Harshaw.....	3	3 1/2	3	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3	3 1/2	3	3 1/2
Huron.....	2	2	2 1/2	2 1/2	2	2 1/2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Hanover.....	...	...	...	...	...	...	...	...	...	...	...	...
Humboldt.....	...	...	...	...	...	...	...	...	...	...	...	...
International.....	...	...	...	...	...	...	...	...	...	...	...	...
National.....	2	...	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2
Osceola.....	30	32	...	32	30	31	30	32	30	32	...	...
Pewabic.....	13	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13	13 1/2	12	13 1/2	...	...
Phoenix.....	...	...	...	...	...	...	...	...	...	...	...	...
Pontiac.....	...	...	...	...	...	...	...	...	...	...	...	...
Quincy.....	40 1/2	41 1/2	42	42 1/2	43	43 1/2	42 1/2	43 1/2	42 1/2	43	...	...
Ridge.....	...	...	...	...	...	...	...	...	...	...	...	...
Silver Islet.....	20	20 1/2	18	20	20	22	20	22	18	20
Star.....
Sullivan.....	1 1/2	2	1 1/2	2	1 1/2	2 1/2	1 1/2	2 1/2	1 1/2	2

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Iron, Etc.;

and it will be our aim to bring the merits and advantages of these various enterprises to the attention of capitalists.

If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

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SPECIAL NOTICE.

Harrington Silver Mining Co.

The Stockholders in the above company are hereby requested to send to the Secretary their trustee receipts and receive stock for the same, in order that arrangements may be made for resuming active work at the mine.

Per order of the President,
EUGENE H. DAKIN.

Secretary.

Bangor, February 3d, 1882.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Benjamin Franklin Silver Mining Company,
OF FRANKLIN, ME.

HANCOCK, Jan. 16, 1882.

Notice is hereby given that an assessment of two and one-half cents has been levied by the Directors upon each and every share of the capital stock of the Benjamin Franklin Silver Mining Company, and the same is made payable February 1, 1882, to the Treasurer at his office in Hancock, Maine.

The stock will be delinquent March 2, 1882.

The transfer books will be closed January 31, 1882, after which date no stock will be transferred until the assessment upon it has been paid.

Stockholders are requested to send in their certificates to be marked assessment paid.

By order of the Board of Directors.

T. J. HODGKINS, Treasurer.

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Bucksport and Bangor R. R.

CHANGE OF TIME, Jan. 16, 1882.

Leave Bucksport,	A. M. Train leaves Bangor Mondays and	5.00
Arrive Bangor,	6.42	Thursdays at 11 6.05
Leave Bangor,	7.35	A. M., Tuesdays & 7.15
Arrive Bucksport,	8.45	Fridays at 2 p. m. 8.25

Train also leaves Bucksport on Tuesdays and Fridays at 10 A. M. On Wednesdays and Saturdays on arrival of Boston steamer.

The 5.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.

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On and after December 1st, 1881, there will be only one Stage a day between Bucksport and Blue Hill.

Stage leaves Bucksport at 9.30 A. M., or on arrival of morning train from Bangor.

Stage leaves Blue Hill at 12 M. to connect with 5 o'clock train for Bangor.

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Bucksport, December 1st, 1881.

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Westminster Review,	Professor Tyndall.
Contemporary Review,	Rich. A. Proctor, B. A.
Fortnightly Review,	J. Norman Lockyer, F.R.S.
The Nineteenth Century,	Dr. W. B. Carpenter.
Popular Science Review,	E. B. Tylor.
Blackwood's Magazine,	Prof. Max Muller.
Cornhill Magazine,	Professor Owen.
Macmillan's Magazine,	Matthew Arnold.
Fraser's Magazine,	E. A. Freeman, D. C. L.
New Quart. Magazine,	James Anthony Froude.
Temple Bar,	Thomas Hughes.
Belgravia,	Anthony Trollope.
Good Words,	William Black.
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This subject has been engraved for us by the same artist who engaged the small plate of "Marguerite," so much admired in our January number of last year. Size of engraved surface is 12 x 7 inches; size to frame about 15 x 10 inches. The price of this engraving in the art stores is \$5, and it will be sent free to all subscribers who may indicate a desire to receive it.

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ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Douglass Copper Company,

— OF —

BLUE HILL, MAINE.

12 West Market Square, Bangor, Me.

BANGOR, Feb. 10, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, and pursuant to article 8 of the Fy-Laws, an assessment of 25 cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, March 7th, 1882, by stockholders of record at the close of business, March 7, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 7th day of April, 1882, will be delinquent, and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient, to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold.

By order of the Board of Directors,
FRANK H. WILLIAMS, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

OF THE

Heracles Copper Company,

OF PENOBSCOT, ME.

135 Middle Street, Portland, Maine.

PORTLAND, ME., Feb. 7, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, Feb. 25th, 1882, by stockholders of record at the close of business, February 15th, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 25th day of March, 1882, will be delinquent and will be advertised for sale at public auction and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale will be sold.

The stock of this Company will be exchanged, share for share, for the stock and club receipts of the Heracles Mining Co.

By order of Board of Directors,
JOHN N. LORD, Treasurer.

Favorite Mining Company

SECRETARY'S OFFICE.

BLUE HILL, ME., Jan. 25, 1882.

The Directors have decided to levy an assessment of FIVE CENTS a share on the capital stock of this company, payable by stockholders of record at the close of business, February 10th, 1882.

Notice is hereby given that after that date no stock will be transferred until the assessment thereon is paid.

By order of the board of directors.
H. A. TRIPP, Secretary.

H. N. PINKHAM, STOCK BROKER,

Member of Boston Mining and Stock Exchange,

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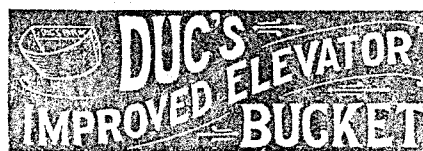
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5.—9.—114.

BANGOR, MAINE, MARCH 3, 1882.

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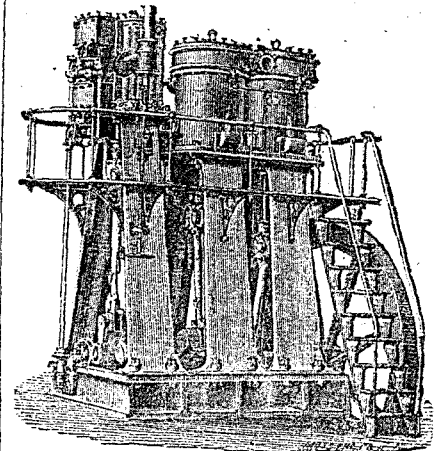
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The amount of assessment due upon each share is ten (10) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued, are as below indicated in their appropriate column.

Name.	No. of Certificate.	No. of Shares.
Atlantic Copper Mining Co.....	596	1,454 1/2
O. Bailey.....	79	500
O. Bailey.....	80	100
O. Bailey.....	81	100
O. Bailey.....	82	50
J. R. Bodwell.....	87	500
J. R. Bodwell.....	88	100
J. R. Bodwell.....	89	100
J. R. Bodwell.....	90	100
J. R. Bodwell.....	91	100
J. R. Bodwell.....	92	100
J. R. Bodwell.....	93	100
J. R. Bodwell.....	94	100
J. R. Bodwell.....	95	100
J. R. Bodwell.....	96	100
J. R. Bodwell.....	97	100
J. R. Bodwell.....	98	25
G. S. Beau.....	106	100
G. S. Beau.....	114	100
G. S. Beau.....	115	750
G. S. Beau.....	157	75
C. C. Burdett.....	232	75
A. M. Bartlett.....	315	300
Robert Caldwell.....	318	701 1/2
H. P. Caldwell.....	321	300
John Humphrey, Trustee.....	205	100
Benj. Hinkleley.....	317	18 1/2
Bion R. Lane, Trustee.....	228	100
Bion R. Lane, Trustee.....	240	100
Bion R. Lane, Trustee.....	241	100
Bion R. Lane, Trustee.....	242	100
Bion R. Lane, Trustee.....	243	100
Bion R. Lane, Trustee.....	250	87 1/2
J. F. Porter.....	258	15 1/2
G. M. Parker, Trustee.....	292	25
Wm. H. Raymond.....	223	75
H. N. Pinkham, Trustee.....	398	100
H. N. Pinkham, Trustee.....	514	200
H. N. Pinkham, Trustee.....	515	200
H. N. Pinkham, Trustee.....	516	200
H. N. Pinkham, Trustee.....	517	100
H. N. Pinkham, Trustee.....	594	100
H. N. Pinkham, Trustee.....	595	50
Geo. F. Ropes.....	506	75
J. A. Strout, Trustee.....	32	37 1/2
J. L. Skolfield.....	187	200
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Edward Tyler.....	429	75
James Young.....	99	100
F. H. Williams, Trustee.....	558	500
F. H. Williams, Trustee.....	461	500
F. H. Williams, Trustee.....	499	500
F. H. Williams, Trustee.....	501	500
F. H. Williams, Trustee.....	438	500
F. H. Williams, Trustee.....	447	500
F. H. Williams, Trustee.....	448	500
F. H. Williams, Trustee.....	505	500
F. H. Williams, Trustee.....	462	200
F. H. Williams, Trustee.....	463	200
F. H. Williams, Trustee.....	506	200
F. H. Williams, Trustee.....	559	200
F. H. Williams, Trustee.....	407	100
F. H. Williams, Trustee.....	439	100
F. H. Williams, Trustee.....	440	100
F. H. Williams, Trustee.....	441	100
F. H. Williams, Trustee.....	442	100
F. H. Williams, Trustee.....	443	100
F. H. Williams, Trustee.....	449	100
F. H. Williams, Trustee.....	450	100
F. H. Williams, Trustee.....	451	100
F. H. Williams, Trustee.....	452	100
F. H. Williams, Trustee.....	453	100

F. H. Williams, Trustee.....	464	100
F. H. Williams, Trustee.....	536	100
F. H. Williams, Trustee.....	537	100
F. H. Williams, Trustee.....	538	100
F. H. Williams, Trustee.....	539	100
F. H. Williams, Trustee.....	540	100
F. H. Williams, Trustee.....	541	100
F. H. Williams, Trustee.....	542	100
F. H. Williams, Trustee.....	54	75
F. H. Williams, Trustee.....	302	75
F. H. Williams, Trustee.....	454	75
F. H. Williams, Trustee.....	465	75
F. H. Williams, Trustee.....	590	50
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— OF THE —

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Hancock, Jan. 16, 1882.

Notice is hereby given that an assessment of two and one-half cents has been levied by the Directors upon each and every share of the capital stock of the Benjamin Franklin Silver Mining Company, and the same is made payable February 1, 1882, to the Treasurer at his office in Hancock, Maine.

The stock will be delinquent March 2, 1882.

The transfer books will be closed January 31, 1882, after which date no stock will be transferred until the assessment upon it has been paid.

Stockholders are requested to send in their certificates to be marked assessment paid.

By order of the Board of Directors.

T. J. HODGKINS, Treasurer.

PIANOS!

JUST RECEIVED.

Chickering & Sons Pianos,

Six different styles; the finest assortment ever received in the State of Maine.

The metallic upright action is the best in the world.

IVERS & POND PIANOS!

One 7 1/2 octave square; one 7 1/2 octave upright.

EMERSON PIANO CO.,

One 7 1/2 octave upright; three 7 1/2 octave squares. A full stock of

WILCOX & WHITE ORGANS

All new and the best in the market, ranging in price from \$75.00 to \$300.00 each.

Sheet Music and Musical Instruments.

Now is your time to get first-class new goods; write or call for prices and terms.

A. M. DEVEREUX,

MASONIC BLOCK,

Main Street, Bangor, Maine.

ANNUAL MEETING.

Young Hecla Mining and Smelting Co.

The annual meeting of the Young Hecla Mining and Smelting Co. will be held at the office of Wiggins & Williams, No. 12 West Market Square, Bangor, Maine, on Thursday, March 9th, 1882, at 3 o'clock P. M.

WM. FRANKLIN SEAVEY, Secretary.

Copper, Zinc and Lead Ores

WANTED.

Highest market prices paid. First-class, responsible buyers. Advances made on cargoes. Send analyses, amount per month, samples (25 or 50 lbs.) Address, B. BARNES, Jr., Broker, 30 Exchange Street, Portland, Me.

N. P. DOE,

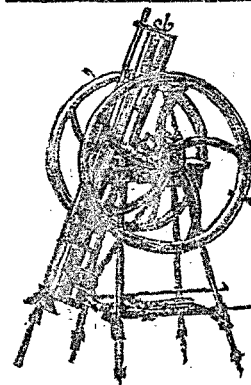
Engraver and Designer,

ON WOOD AND METALS.

Views of Buildings, Stock Certificates, Business Cards, Jewelry, Etc.

ROOM 3, OVER DAILY WHIG OFFICE,

BANGOR.



ROYAL Rock Drill.

Excels all others for prospecting work. Worked by man, horse or any power. Two men can handle and run it, and do the work of ten men. Weighs 500 lbs., and readily taken apart for transportation.

Address: ISAAC W. BOTAL, OR JOSIAH S. BIGGER, No. 3 Main St. Bangor, Me.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

— OF THE —

Douglass Copper Company,

— OF —

BLUE HILL, MAINE.

12 West Market Square, Bangor, Me.

BANGOR, Feb. 10, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, and pursuant to article 3 of the By-Laws, an assessment of 25 cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, March 7th, 1882, by stockholders of record at the close of business, March 7, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 7th day of April, 1882, will be delinquent, and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient, to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold.

By order of the Board of Directors,
FRANK H. WILLIAMS, Treasurer.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING,
W. F. BLANDING, EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

Subscription price, \$2.50 per year, or \$2.00 when paid in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MARCH 3, 1882.

The mining share market has shown no special change during the past week. At the Boston Stock Exchange, Douglass has sold at 31 1-4c and Sullivan at \$1 5-8. At the Boston Mining and Stock Exchange, the closing sales on Wednesday were Deer Isle 19c, Twin Lead 11c, Milton 11c, Young Hecla 20c, Copper Prince 55c, Empire 45c, Edgemoggin 8c, and Copperopolis 5c.

The annual meeting of the American Institute of Mining Engineers was held last week at the Smithsonian Institute in Washington. The session was largely attended and the occasion was one of great interest to those present. The opening address in behalf of the Institute was made by Gen. Sherman. Major J. W. Powell, Director of the United States Geological Survey, made the address of welcome.

It seems not a little strange that the Sullivan Bulletin, which a few months ago was loud in its advocacy of some scheme which should furnish the people of that town with railroad facilities, remains silent during the present Shore Line agitation. If the Bulletin looks with favor upon the project, it should lend a helping hand; if not, its reasons should be given, as all sides of this important subject should be presented for the consideration of the public.

Much quiet work is being done at present by several of the leading Maine companies preparatory to a vigorous development work during the coming season. One of the best evidences of the fact that the mining industry in Maine is rapidly being put on a solid basis, is the steadily growing confidence of the people of the State in the mines already developed. They are beginning, as a whole, to believe what has long been told them by those who knew, that a paying mine could exist as well in Maine as in California. A continuance of the policy now being pursued, with the same steady, systematic and vigorous work that has characterized the development of the past few months, must soon show ex-

cellent results, and will, besides, gain an added support in the way of increased investments of no small importance.—
[Boston Traveller.]

The taxation of mining companies doing business in the Commonwealth of Massachusetts is being discussed considerably at present among mining circles in Boston. Under existing laws a corporation holding an office within the confines of that State has to pay an annual tax of one-tenth of one per cent. of the capital stock. In case of mining companies organized, as is generally the case, with a capital of \$500,000, the yearly assessment amounts to \$500, and those Maine mining companies which have opened offices in Boston have been obliged to pay this amount. The injustice of this demand is readily apparent and we are glad to see that the mining men of the New England metropolis are waking up to the importance of the subject and hope they will continue the agitation until the obnoxious law is repealed. The question is to be brought at once before the Massachusetts Legislature and we trust it will receive the consideration deserved.

The bondholders of the Bucksport & Bangor Railroad met at the Bangor House on Tuesday last and organized into a corporation under the name of the Eastern Maine Railway Company, with Eugene Hale, J. R. Bodwell, Maynard Sumner, Geo. W. Kimball, S. D. Bailey, Davis Tillson and L. A. Emery as Directors. At a subsequent meeting of the Directors the following officers were chosen: President, Hon. Eugene Hale; Vice President, Geo. W. Kimball; Treasurer, Edward Swazey; Clerk, L. A. Emery; Superintendent, L. L. Lincoln. The question of extending the road to Ellsworth was freely discussed, but no definite action was taken, the company seeming disposed to await the development of the Shore Line project. Should the Shore Line be built direct to Bangor from Ellsworth, as proposed, the B. & B. extension will probably be indefinitely postponed. The time is not far distant, however, when the road may be profitably extended to Blue Hill, and possibly Castine and Brooksville.

The demoralized condition of the mining share market in Boston and New York is but the natural result of the swindles perpetrated at the mining boards of those cities and which are still fresh in the public mind. The brokers have brought all this trouble upon themselves, and they must stem the tide as best they can. Meanwhile, the only thing which can be done, either by the brokers or holders of stock purchased at high prices, is to wait. The mining industry is flourishing as never before. The number of productive and profitable mines is increasing from day to day, and with the opening of the season now so near at hand, many new and promising districts, both East and West, prospected for the first time during last year, will come into prominence and add largely to the stream of imperishable bullion pouring into the markets of the world. All this will soon have its effect upon the public; the general prosperity will serve to obliterate from the memory the disgraceful transactions of the past year and mining stocks will again be in demand. Not wildcats, however—their day is past; and, in the future now opening, mining shares can only be made marketable by representing properties of undoubted merit under competent

management, and being handled by a class of men who confine themselves to legitimate and honorable business transactions.

MAINE SHORE LINE RAILROAD.

The corporators of the Maine Shore Line Railroad met at the Penobscot Exchange, in this city, on Tuesday last, and perfected their organization as follows: President, J. N. Greene; Clerk, S. N. Campbell; Directors, J. N. Greene, G. E. Tainter, J. E. Lynott, S. D. Leavitt, J. R. Talbot, S. N. Campbell and L. A. Emery; capital stock, \$1,600,000. Col. Greene has been in the city several days during the present week, and held a conference on Monday with a number of our prominent business men at which the proposed plans were fully discussed and a committee, consisting of Hon. Chas. Hayward, L. J. Morse, Esq., and R. W. Kimball, Esq., was appointed to call the attention of our capitalists and business men to the matter and report at a public meeting to be held at the Common Council room to-day (Friday) at 4 P. M.

We regret that the pressure upon our columns will not permit extended reference to this important subject the present week. We must, therefore, be content with reminding our local readers that an enterprise which promises to bring nearly 80,000 people, whose wants have hitherto been supplied from the Portland and Boston markets, in direct communication with Bangor, is worthy of the most serious consideration.

Personals.

W. G. FRYE, Esq., of Belfast, has been appointed U. S. Consul-General at Halifax, N. S.

JOHN S. JENNESS and FRANK H. WILLIAMS made a trip to Blue Hill during the present week.

MR. O. W. PITCHER, of Belfast, left last week for Colorado to look after his mining interests.

L. LINN SMALL, of Lewiston, has returned from New Mexico where he has been looking after his mining interests.

JOHN B. THOMPSON, formerly of Bridgeton, Maine, has struck it rich in the mining business in Colorado, according to a Denver paper.

MR. J. H. WOODFORD, of Newton, Mass., recently elected Director of the Gouldsboro Silver Mining Company, made a visit to the mine last week.

HON. EUGENE HALE arrived in the city early in the week from Washington and was present at the meeting of the bondholders of the Bangor & Bucksport Railroad.

SENATOR FAIR has presented a splendid map of the United States to one of the public schools of Virginia City. It is said to be the finest map ever seen on the Comstock.

EDWARD F. COUCH, a well known mining man, owning large interests in several prominent New England and Provincial mining properties, died suddenly at Newburyport, Mass., on Monday last.

DR. M. PREBLE, of this city, left on Wednesday evening for Clifton, Arizona, to examine a valuable copper property in which he and other Bangor gentlemen are interested. He will be absent from Maine about six weeks.

Ex-Gov. R. C. MCCORMICK, of Arizona, who is recov-

ering in New York from a dangerous illness, graduated from the editorial rooms of the New York Times and is a son-in-law of ex-Senator Thurman, of Ohio.

CAPT. FRED C. BARKER, a young hunter and trapper from the Rangeley Lake region, has been giving a series of interesting "talks" about life in the Maine woods, to the pupils and friends of the Chauncey Hall School, Boston.

Dips, Spurs and Angles.

—Applejack yields the government a revenue of about \$50,000 a year.

—The flow of water from Sutro Tunnel averages 6,125,000 gallons every 24 hours.

—The oldest bank in the United States is the Bank of North America, in Philadelphia, which began active operations in 1782.

—An advertiser in a Texas paper calls for "an industrious man, as boss over five thousand head of sheep that can speak Spanish fluently."

—Sailors frequently mutiny for an increase in their allowance of grog, and bread riots are of common occurrence; but the only strike for water on record was when Moses smote the rock.

—The brokers, or *agents de change*, at Paris, are limited by law to 60, and each member pays a caution money of \$50,000, while the profits are so large that the seats sell at \$400,000 to \$500,000. The *agents de change* are said to have made during the past year ten million dollars in commissions.

—The best mining lie of the present season is the following, which we cheerfully credit to the Tombstone Epitaph: "A lofty mass of rock, which threw its shadow over Las Vegas, half a mile away, tumbled into the valley last week. Five to fifteen thousand tons of rock were loosened from its foundation by intense cold, followed by unusual heat. The mountain towered 5,000 feet above Gallinas river. The earth seemed to tremble as the mass descended steadily down the side of the cliff, and when it reached the bottom the effect was appalling. The most remarkable result of this sudden and violent change under nature's direction is found to be the disclosing at the point of rupture, high on the mountain side, of an eight-foot vein of copper carbonates and sulphides, which was promptly located by F. P. Martindale, who claims to have been the best climber and the first on the spot, and he is now holding his claim with a brace of forty-fours. Half way down the side of the mountain, in the cradle of the swath, a coal bed was laid bare, which was also pre-empted as soon as discovered."

GEORGIA GOLD FIELDS.—The gold mines of Georgia for 1881, on the authority of Prof. George Little, Geologist of this State, have yielded 250 per cent. on the capital invested, and there is an area for 2,000,000 more of mining lots, which, grasped at once, will cost less than 20 per cent. the cost of mining ground on government lands in the far West. There were on exhibition at the Exposition 283 different minerals from the States of the South. This makes the representation fully 110 larger than ever before exhibited in all the International Expositions held. North Carolina shows fully 200 different minerals. No other like circumscribed area of territory, so far discovered, can produce 125 different minerals. The ores of gold of this State are free milling. Many mills are separating gold from its ores at the cost of 40 cents per ton. The gold-bearing quartz of this State, so far worked, has been mined without the employment of drills and powder. The State yield of gold for 1881 is \$6,000,000, yet this branch of mining is in its infancy compared with future work. There are 87 gold mills in operation. The present year will add 100 more; for foreign and Eastern capitalists are on the alert. They have many Rocky Mountain prospectors out purchasing farming lands ostensibly, but who are in reality buying mining ground. Some Cincinnati capitalists are among these shrewd workers. Baltimore, Philadelphia, New York, Boston, and San Francisco also are interested.—[Dahlonga Mountain Signal.]

A Midwinter Ramble.

WHAT OUR REPORTER SAW AMONG THE MOUNTAINS—THE BANGOR AND KATAHDIN IRON WORKS RAILWAY—KATAHDIN IRON WORKS—SILVER LAKE HOTEL—MERRILL'S SLATE QUARRY—PALMER'S LUMBERING OPERATIONS AT THE "GULF"—LIFE IN A LOGGING CAMP.

On Tuesday of last week, a party of gentlemen comprising members of the City Government, railroad officials and other prominent citizens made a tour of inspection over the new Bangor & Katahdin Iron Works Railway, by invitation of Mr. O. W. Davis, Jr., President of the Road. The party included His Honor Mayor Strickland, Alderman L. J. Morse and Thomas S. Moor, Esq.; O. W. Davis, Jr., Gen. Chas. Hamlin, Henry McLaughlin and F. W. Carr, Directors of the B. & K. I. W. R.; Superintendent Brown, of the Bangor & Piscataquis R. R.; Edward G. Wyman, Cashier of the First National Bank; W. J. Webb, Bond and Stock Broker; Messrs. David Bugbee, John S. Ricker, Arad Thompson, R. G. Hinman and J. F. Colby; and a representative of the MINING JOURNAL.

Leaving the Exchange Street station at 7:30 P. M., a ride of a little more than two hours brought the party to Milo station on the B. & P. R. R., forty miles from Bangor, and the point of connection with the Bangor & Katahdin Iron Works Railway. Making the transfer to one of the comfortable passenger cars of the new road, the distance to Brownville—six miles—was made in a few minutes, and the visitors had reached the end of the track. Here several members of the party were left behind, their duties necessitating a return to Bangor the same day; they were taken in charge by "Mayor" Briggs, of Brownville, and improved the time during their stay by a visit to Merrill's Slate Quarry, the operations of which busy establishment were viewed with much interest. The remainder of the party, including the writer, continued their journey, by stage and private conveyance, to the Iron Works.

Shortly after leaving the village of Brownville, the stage road passes the old Bangor & Piscataquis Slate Quarry, now lying idle—temporarily, we hope—and which was recently sold at auction in this city. Climbing to the brow of a long hill a short distance beyond the Quarry, a broad panorama was spread out before us. At our feet lay an open and level tract of country, white with its mantle of snow; beyond this plain, and seemingly within a stone's throw but in reality six miles distant, was a dark line of forest stretching away to the north and west as far as the eye could reach, broken only by the range of mountains in the midst of which the Iron Works are located; Whitecap, Chairback and Horseback, the highest peaks of the range, stood out in bold relief, while from near the base of Chairback rose a tall column of smoke from the perpetually burning charcoal fires; further east, above the foothills of the range, sharply defined against the leaden sky darkening with the gathering storm, towered old Katahdin—bleak, desolate and alone in all his grandeur. The view was grand—magnificent, and the party fain would have lingered to "take it in" more deeply, but the falling temperature and the forebodings of the coming storm urged us on. Descending the hill and crossing "the prairie," as it is called by the natives (a bitter cold place, by the way), we entered the forest and after a six mile ride reached the Silver Lake Hotel about 2 P. M. Here two rousing wood fires awaited us, and after a few moments' enjoyment of their grateful warmth the party sat down to one of the excellent dinners for which Landlord Capen is famous, after which the afternoon was spent in an inspection of the Furnace and Works.

The evening was pleasantly and quickly passed in the comfortable parlor of the hotel and all retired to sound and refreshing sleep, notwithstanding the howling of the storm—the most severe of the season—which raged fiercely outside. In the morning the party left for home in the midst of a driving snow-storm and arrived in Bangor on the afternoon train, greatly pleased with their trip, enthusiastic over the future prospects of the B. & K. I. W. Railway, grateful for the hospitalities extended by Mr. Davis, and strong in their expressions of admiration for the enterprise and perseverance which have established so prosperous an industry as the Katahdin Iron Works in the heart of the Maine wilderness.

Our reporter, however, remained behind; having accepted the kindly invitation of Mr. J. W. Palmer to visit the scene of his extensive lumbering operations on the headwaters of the stream which flows past the Iron Works—the West Branch of Pleasant River.

THE BANGOR AND KATAHDIN IRON WORKS RAILWAY

Is purely a Bangor enterprise. The Katahdin Iron Works and Merrill's Slate Quarry at Brownville are two of the most prosperous industries in the State, and the productive capacity of both these establishments is capable of being increased to a practically unlimited extent. These, in connection with the

vast beds of finest quality slate and the innumerable water privileges as yet undeveloped, the immense tracts of timber suitable for small manufactures and the growing popularity of this region as a place of summer resort, led to the belief that a railroad through this section, while providing cheaper and more rapid transportation facilities for the industries already established, could not fail to be in itself a paying enterprise. The Company was organized in July last, with a capital stock of \$120,000, all of which was taken at par by a few of our well known business men. Income bonds to the amount of \$120,000 have been issued, which have also been taken by the stockholders. First mortgage bonds have also been issued, to the amount of \$100,000, being at the rate of only \$5,000 per mile. These bonds are secured by a mortgage of the entire property of the company, bear interest at six per cent. per annum (guaranteed by the Katahdin Iron Company) and are redeemable in twenty years from July 1, 1881. The officers of the Company are as follows: President, O. W. Davis, Jr.; Treasurer and Superintendent, Henry McLaughlin; Directors, O. W. Davis, Jr., Charles Hamlin, Frank W. Carr, C. F. Woodard, Henry McLaughlin; Solicitor, Gen. Chas. Hamlin; Trustees for Bondholders, Noah Woods, President of the European & North American Railway, and Edward G. Wyman, Cashier of the First National Bank, Bangor.

The surveys for the line were completed in July, under the supervision of Engineer Spofford, of Bucksport, and the work of grading was immediately commenced. This has been carried forward expeditiously under contract with Mr. James Mitchell, an experienced road builder, and is now very nearly completed. No serious difficulties have been encountered; the cutting and filling has all been of a light character and no blasting was required at any point along the line. The heaviest work is now in progress and consists of a cutting into a hard clay bluff, on the river bank about one and a half miles below the Iron Works. This portion of the work is progressing favorably, as the frozen surface of the stream permits the labor to be carried forward to much better advantage than would be possible during the summer season. Only four truss bridges are required along the whole route. One of these is already completed and trains running over it; the long timbers for the others are already hauled to their respective localities, while the short lumber is being got out and will be taken to the Iron Works to be sawed. Besides these there are seven or eight short trestles, involving no great expense. This work is being done by Mr. David Smith, the veteran bridge-builder.

The road is of standard gauge and when completed will be nineteen miles in length. The cost of construction will probably not exceed \$7,500 per mile; stocked, the total cost of the road will be about \$10,000 per mile. If a road has ever made a better showing than this, we have failed to note it. The rails are laid and trains have been running from Milo station, on the B. & P. R. R., to Brownville, a distance of six miles, since last November. One mile from the junction, Milo is reached, a village of 1,000 inhabitants and containing a saw and grist mill, a woolen mill and an excelsior and spool-wood factory. The village is located on Sebec Stream, the outlet of Sebec Lake, and has one of the best water-powers in the State, not yet utilized to one-half its full capacity. Just beyond Milo village the road crosses the stream on a substantial bridge, and five miles over a succession of easy grades brings the train to Brownville. Considering that the track has as yet received no ballasting the road-bed is surprisingly smooth and speaks well for the excellence of the work done by Contractor Mitchell. The village of Brownville is situated on Pleasant River and, like Milo, has about 1,000 population. Here is, also, an excellent water-power utilized at present only by a small saw and grist-mill and a shovel-handle factory. Brownville is in the centre of the great Piscataquis slate belt, and numerous veins which are destined to become large producers of this valuable material in the near future have been opened in the vicinity. At present most of these properties are lying idle, although several new companies are starting in and preparing for extensive operations. Merrill's Quarry is a large producer and is expected to ship about 18,000 squares of slate the present year. The same trouble has been experienced with the slate quarries as that found in attempting to work our copper and silver mines. They cannot be profitably operated upon a small scale, as so many companies and individuals have found to their cost. The business requires a large capital, an immense plant, and competent and economical management. Given these conditions, with a good vein of slate such as are abundant in this vicinity, and a disposition on the part of the operators to expend a large sum of money before expecting returns, an immensely profitable industry may be developed, as has been abundantly shown by the few successful quarries at present in operation.

From Brownville the road continues along the western shore of Pleasant River, striking the West Branch a few miles above the village and crossing

the stream a short distance below the Iron Works. At Brownville a siding will be run to Merrill's Quarry, a few hundred yards distant from the main line. Large quantities of ship knees are being hauled to the line of the railroad from the surrounding districts, and as the country has never been "kneed" before, owing to the cost of transportation, this branch of business will add very materially to the business of the road. Mr. Jeremiah Fenno, of Bangor, has also started a mill for the manufacture of spool-stuff at the outlet to Ebeeme Pond, about ten miles distant, and this product will go over the road from Brownville. The several branches of Pleasant River which come together a short distance above Brownville are all good driving streams, fed by large ponds and lakes whose shores are covered with forests capable of supplying an unlimited quantity of ship knees, telegraph poles, hoop poles, spool timber, last blocks, excelsior, pulp, etc., as also short lumber of all kinds. New industries are springing up, numerous important enterprises are projected, and, in view of the fact that the road has during the winter and is at present more than paying its running expenses, it can scarcely fail, when completed, of doing a large business and becoming a prosperous institution, besides opening up to settlement and cultivation a fertile tract of country rich in natural resources and adding largely to the general wealth and prosperity of the State.

The Company have built a substantial passenger station and freight house at Brownville, and a round house and turn-table at Milo. The rolling stock at present consists of one locomotive, two passenger and eight flat cars, and a snow-plow; new freight cars are being built by the Portland Company, for early delivery. The grading is all completed but about two miles near the upper end of the line, and that is well under way. The rails are all purchased and the sleepers contracted for, and it is expected that the entire line will be in operation early in July and the ballasting completed before the close of the season.

KATAHDIN IRON WORKS.

The past history of this important enterprise, familiar to most of our readers, has been an eventful one. The deposit of ore was discovered and the blast furnace erected in 1843, nearly forty years ago. In 1845 the property was purchased by Messrs. Pingree & Co., of Salem, Mass., who, after numerous unsuccessful attempts to work the ore profitably, abandoned the business. It passed into the hands of Messrs. Hinckley & Egery, of this city, and was finally purchased and the furnace started by a stock company, Mr. O. W. Davis, Jr., being treasurer and chief manager. Shortly after assuming control, Mr. Davis instituted a series of careful chemical experiments upon the ore and its treatment, employing for this purpose a young Swedish chemist, Mr. Ernst Sjostedt, a graduate of the School of Mines at Stockholm. Through his investigations the true nature of the ore was determined and the defects in the method of smelting discovered. The trouble was found to be with the roasting process, and in 1877 Mr. Sjostedt, assisted by Mr. Geo. D. Colby, the present superintendent of the works, devised a modification of the Westman gas roasting kiln (in common use in Sweden) which was found to work satisfactorily, completely obviating the difficulties hitherto experienced. Since then the works have run continuously, with the exception of occasional periods of shutting down for repairs or on account of an insufficient head of water to run the machinery, turning out about 400 tons of first quality charcoal pig-iron per month.

The furnace is a massive structure built of stone and brick, about twenty feet square at the base and fully fifty feet in height, and is surmounted by a small wooden house reached by means of an elevator, which also carries the ore, fluxes and fuel to the top where the furnace is charged. The buildings immediately connected with the furnace consist of a long shed, where the castings are made; engine house, containing also the powerful machinery for supplying the blast; building where the ores, fluxes and fuel are weighed and mixed in proper proportions, and which also contains the elevator and machinery; ore shed, where the immense roasting kiln is located; and coal sheds. The furnace is erected at the base of a slope, about midway of which the roast kiln is situated, and connected with the elevator room of the blast furnace by an elevated platform. The ore is hauled direct from the mine to the top of the slope, where it is broken by sledges into small pieces and thrown into the roasting kiln upon hard-wood fires. During the process of roasting the sulphur passes off through central flues, as described in the MINING JOURNAL of Dec. 24, 1880, and the desulphurized ore gradually falls to the base of the kiln where it is drawn out through passages made for the purpose, and is ready for the blast furnace. The kiln roasts about 40 tons of ore per day. The ordinary charge of the furnace is about as follows: Ore, 1200 lbs.; charcoal, 24 bushels; limestone, 130 lbs.; manganese, 10 lbs.; from 50 to 60 charges are made daily, and the product is 14 to 15 tons first quality iron every 24 hours. Casts are made every four hours. The temperature of the furnace is about 600° F. and the pressure is about 2 lbs. per

square inch. The immense air cylinders which furnish the blast are among the best ever constructed. They are 5 ft. in diameter, 5 ft. stroke, and were cast at West Point many years ago. The power for running this powerful machinery is furnished by a turbine wheel of 62 horse-power under the present head of water; another wheel of 40 horse-power runs the elevator. As the works have in times past been troubled from lack of water to run the machinery, an engine and boiler were purchased and placed in position last season, and are in readiness for use whenever required. About 100 workmen are employed about the furnace and at the mine.

The ore deposits from which the furnace is supplied are of unknown extent, but to all appearances are practically inexhaustible. The ore is "limonite," and occurs in the most peculiar situations; in fact, the formation has always been a puzzle to all who have ever examined the locality. The original beds were shallow surface deposits, lying on the slope of the mountain some two or three hundred feet above the surface of the lake, and in 1877 began to show signs of exhaustion. This led to a more thorough exploration of the ground and it was found that the ledge underlying these beds was a pyritiferous slate which decomposed very rapidly upon exposure. Beneath this another layer of the brown ore was found and subsequent developments have shown that this ledge matter is interspersed with bands and bunches of ore to a depth of some twenty feet, when the hard or "blue ledge" is ordinarily encountered. The ore occurs without any semblance of regularity, and consequently there is nothing upon which to base calculations as to the probable extent of the deposit; but from the nature of the surrounding ground and the appearance of the exposures already made it would seem there is little danger of it being "worked out" during the present generation. The excavations are made by simply breasting into the hill; the pick does most of the work and very little blasting is required. The ore beds are about a mile distant from the furnace, but the roads are down grade the entire distance, making the hauling easy.

The charcoal used at the furnace is all made at the Works from wood cut on the Company's land. An immense quantity is required for this purpose and a large force of men are constantly employed cutting and hauling during the winter season. The cut the present winter will reach 15,000 cords, mostly birch, with some poplar. Upwards of 12,000 cords have already been cut and hauled and the grounds about the works are covered to the extent of several acres with piles of wood ranged in long rows and from 10 to 15 feet in height. The cutting and hauling is done by contract and upwards of 175 men and 150 horses are employed for this purpose at the present time. About 280 cords are cut and hauled per day; the largest day's work this winter was 325 cords. The coal kilns are twelve in number and are large, rotund, dome-shaped structures, built substantially of brick, each capable of holding 50 cords of wood. They have two openings, one in the top and another near the ground, and are filled both from above and below; the first layer of wood being stood on end at the bottom and the remainder thrown in through the top, which is reached by a bridge or elevated platform extending along the entire row of kilns. After being fired they are sealed up and burn about seven days, after which they require about five days to cool off before being opened. Each of these kilns produces at a burning about 2,050 bushels of coal from green wood, or about 2,800 bushels from dry. An average of six kilns are emptied per week. Besides the coal used in smelting, the fluxes are important items. Nearly a hundred tons of limenrock and about twelve tons of manganese are used per month for this purpose. The limenrock comes from Rockland and the manganese from Nova Scotia.

The Works are situated at the outlet of a lake of considerable extent, which during the greater portion of the year furnishes abundant power to run the machinery connected with the furnace, and also a small saw-mill where all the short lumber used in the village is sawed. Many of the workmen connected with the establishment live with their families in neat and comfortable frame houses, and the little village has a resident population of about 200. A store, operated by the Company, furnishes the inhabitants with all the supplies needed and carries on quite a large business, the sales amounting to upwards of \$65,000 during last year.

SILVER LAKE HOTEL.

Katahdin Iron Works has long been popular, with the favored few familiar with its charms, as a place of resort during the summer and fall months. Few indeed are the localities which can present so many and varied attractions to the tourist, sportsman, invalid or pleasure seeker. Situated on the edge of the unbroken wilderness, in the midst of the most charming mountain, lake and forest scenery, and surrounded with every facility for hunting, fishing, boating and excursionizing, there really seems nothing left to be desired; its only drawbacks have been its inaccessibility and the want of suitable accommodations for guests.

Last season, however, Mr. Davis caused the hotel at the village to be thoroughly repaired, refitted and refurnished throughout, and otherwise prepared to meet the wants of summer visitors. It was then christened "Silver Lake Hotel" and placed in charge of Mr. J. E. Harriman, an experienced hotel manager, of this city. It had a most successful season's run and was filled to overflowing with guests from widely scattered localities until late in the fall. This year numerous other improvements are contemplated, including either the building of a new hotel or an enlargement of the present house to meet the increase of patronage certain to follow the advent of the new railroad. The hotel is now under the management of Mr. Capen, a most genial gentleman, an experienced landlord and one of the best caterers in the country. Mr. Capen was formerly connected with Young's and other well known Boston hotels, and of late years will be remembered by many of our readers as the popular Steward of the Kineo House, Moosehead Lake. The location is on the shore of Lake Mumanunnalungen, now known as "Silver Lake," at the foot of a beautiful and fertile valley which extends up into the mountains some eight or ten miles to the "Gulf," a most romantic spot elsewhere described. One of the principal attractions of the place lies in the wonderful mineral springs, whose waters, although clear and sparkling as crystal, are strongly impregnated with sulphur and iron and impart health and vigor to those having occasion to test their powers. The house has at present about fifty boarders—employees of the Company and teamsters engaged in hauling iron and supplies.

The completion of the railroad in early summer of the present year will bring Silver Lake within a three hours' ride of Bangor and, consequently, within easy reach of all portions of New England. Merchants and professional men of this city who find it difficult to leave home during the week can take the Saturday afternoon train, spend a quiet Sabbath enjoying the fine scenery and breathing the invigorating mountain air, and return to business cares on Monday morning. That Katahdin Iron Works is destined to become one of the most famous of the many summer resorts and sanitariums for which Maine is so justly noted, is the sincere belief of the MINING JOURNAL.

[CONCLUDED NEXT WEEK.]

CORRESPONDENCE.

The Tecumseh Iron Works, Georgia.

[FROM OUR OWN CORRESPONDENT.]

ATLANTA, Ga., Feb. 24th. 1882.

To the Editors of the Maine Mining Journal:

SIRS.—On my way South I spent one day in Washington and, of course, visited the Capitol. In the Senate as I listened to Vance of N. C., who was delivering a long and prosy written speech in favor of Free Trade, I could but think how some of the southern people stand in their own light. The South possesses almost boundless natural resources, and not the least is the large deposit of iron ore in Tennessee and Alabama.

It was my privilege to make a visit recently to the works of the Tecumseh Iron Company, in the latter State. The company is composed entirely of gentlemen from the North, some of them now living in the South and being of the class denominated reproachfully as "Carpetbaggers," which class have done much to establish industries here and develop the natural resources. For years they have been fairly ostracised by southern society, and their efforts hindered in such a manner as to discourage many. But of late those native southern whites who cherish a desire for business activity have begun to recognize the merits of their Yankee brethren and speak of them in high terms of praise.—Excuse this digression. As we approached the vicinity of Tecumseh (so named in honor of Gen'l Wm. Tecumseh Sherman) I noticed many evidences of the presence of smelting furnaces. Car loads of ore, pig iron, lime rock and charcoal were seen at several stations along the line of the Selma, Rome and Dalton (now a part of the Ea. Tenn., Va. & Ga.) R. R. We passed the Etta, owned by southern capitalists and producing eight tons of car wheel iron per day.

Arrived at Tecumseh we found but a small settlement, built up entirely by the Iron Company and connected with the main line of R. R. by a branch track of three-quarters of a mile. The company was organized in 1874 and is represented by \$100,000 in stock and \$80,000 in bonds. During the hard times and depression in the iron trade which prevailed in the years following the starting up of their works the earnings were only sufficient to pay operating expenses and interest on the bonds, but the accounts for the past year or two make a much more favorable showing. The President and General Manager of the company is Gen. Willard Warner, Ex-U. S. Senator from Alabama, who has erected a neat and commodious house on the hill

side over looking the valley in which the works are situated. Beautiful mountain scenery is presented to the view on either side, which reminded me very strongly of Katahdin Iron Works in our own State of Maine, especially when I cast my eye toward the furnace and its immediate surroundings. But I missed the beautiful lake with the dancing boats upon its glassy surface, and the tributary streams so abounding in speckled trout and roaring over the falls like a miniature Niagara. Other stockholders are Col. A. E. Buck, Treasurer of the Co., Clerk of U. S. Courts at Atlanta; Judge W. B. Woods of the U. S. Supreme Judicial Court; Gen. J. W. Burke, Collector of Customs at Mobile; Gen. Robert W. Healey of Chattanooga; all officers in the federal army, and other enterprising men, some of whom reside in New York and others in New England.

The company own about eleven thousand acres of land, a large part of it covered more or less densely with wood, and containing both ore and lime-rock in sufficient quantity to last for generations. The ore is brown hematite and is very easily quarried from the surrounding hills. It is very rich, containing but little alloy. It is quarried and delivered at the works at a stipulated price per ton, and some of the country teams engaged in hauling it would interest a northern teamster. The cattle are small and *very thin*. Steers, bulls and cows are used indiscriminately. The ore is roasted in large piles, containing thousands of tons. It is mixed with dry wood and charcoal siftings, which burn till the water is driven off and the ore rendered friable. It is then placed in the furnace, mixed with limerock in the proportion of about seven tons of the former to one of the latter. When two boxes of this mixture have been dumped in then two boxes of charcoal follow, and the same process continues. The whole mass is heated to 900° Fahr. by blasts of hot air which are driven into the furnace near the bottom by a large steam engine of a capacity of 400 horse power. I was much interested to learn that the fuel for heating the water in the four large boilers to make steam for driving the engine, and also for heating the air which the engine drives into the furnace, is nothing but the gases which are driven off from the furnace during the process of smelting, and conveyed in pipes down the stack and under the boilers into the hot air chambers.

Over 800,000 bushels of charcoal are used annually, a part of which the company purchases of charcoal burners in the vicinity at a cost of seven cents per bushel, and the balance is produced from wood cut on their own land and burned in large oval kilns or ovens, similar to those in use at Katahdin Iron Works. The wood is chiefly hard pine and oak, the only woods which abound in this vicinity. I am told they make very good coal.

The furnace has been in continual operation since June, 1875, without the fire going out. But I learn it is proposed to blow out soon and re-line, with the hope of increasing the production, which now amounts to only about fifteen tons per day. The iron produced is of different qualities. A part is for car wheel purposes, being fine grained, tough and pliable, while the remainder is better adapted for common foundry purposes. It is sold at such a price as to net at the furnace about \$23.00 per ton.

This enterprise furnishes employment to several hundred men, both white and colored, and a large number of teams. The railroad track runs right to their door so the expense of carting is confined to hauling the ore, wood, charcoal and lime-rock. The help live in cottages built for them by the company, who supply them with the necessities of life from a large store. No intoxicating liquors are allowed to be sold within three miles of the works. There are two little chapels built by the company in the settlement, one for the whites and one for the colored. There is no hotel, but I was very nicely entertained by General Warner, whose daughter May presides over his household and dispenses his hospitality in true southern style.

R. W. D.

A new iron shipbuilding yard is to be established at Alexandria, Va., and furnished with a complete modern plant, capable of turning out any class of iron vessel. From what we can learn, the enterprise is backed by ample capital and by leading men, prominent among them being Hon. Guy C. Goss, of the wooden shipbuilding firm of Goss, Sawyer & Packard, of Bath, Me. It will be remembered that some time ago the leading citizens of Bath held a series of meetings, at which was discussed the advisability of starting iron shipyards on the Kennebec River, and quite an amount of capital was promised. The discussions at that time awakened considerable interest and probably this Alexandria enterprise is one of the outcroppings of the agitation. We understand that the Alexandria company have under their control patents for the production of semi-steel boat plates, which, it is claimed, will enable them to turn out a very superior vessel at a much less cost than vessels built of the ordinary class of iron.—[Nautical Gazette.]

LODES, LEADS AND VEINS.

Blue Hill.

Work is progressing favorably at the Blue Hill mines, and developments are being pushed vigorously. All the old miners, who have had long experience in copper mining in different parts of the world, express themselves enthusiastically with regard to the future outlook of the district. All that is needed are depth and development.

STEWART.—Both shafts are down about 130 feet, and the ore is improving as depth is attained.

MAMMOTH.—The shafthouse is completed and sinking has been resumed. The shaft is now down 35 feet and well timbered.

BLUE HILL.—A large force of miners are pushing underground developments, and a considerable amount of good ore is being raised daily.

TWIN LEAD.—Work is being prosecuted on the northern inclined shaft, which is now down 175 feet. Some very fine ore is being raised, which is being encountered on the foot-wall side of the incline.

YOUNG HECLA.—The shaft, sunk 34 feet through the soil, has reached the vein. The shaft has been substantially timbered and sinking was resumed on Tuesday last. The annual meeting of the Young Hecla Mining and Smelting Company will be held in this city on Thursday, March 9th.

DOUGLASS.—The matte furnace is still running finely, turning out about 2 1-2 tons per day; the grade is about 38 per cent. About 60 tons are ready for shipment. It is probable that the contents of the ore dump will be sold and shipped to a Boston firm now erecting large works in that city for the manufacture of sulphuric acid. Work is now being pushed on the main shaft, which has reached a depth of nearly 200 feet. The ore is constantly improving in quality as sinking progresses. The new and powerful pump, designed by Mr. Maliphant and made by the Hinckley & Egery Iron Company, of this city, works finely and is run at a very small expense. Treasurer Williams was on hand Monday last to pay off the employees of the Company, which made lively times at the office as a large sum was disbursed.

Bagaduce.

CAPE ROSIER.—Shaft No. 1 is down 150 feet, and shaft No. 2, which is 200 feet distant, has reached a depth of 115 feet. These shafts will be driven to a depth of 300 feet as rapidly as possible. The 100-level from No. 1 is nearly through to No. 2 shaft. The shafts will be connected at greater depths by levels driven at intervals of 60 feet. The ore from the bottom of No. 1 shaft is better in quality than any before taken from the mine. Seventy men and boys are now employed and the underground work is being pushed as rapidly as possible. Fifteen hundred tons of ore have been shipped, which have returned in cash from \$8 to \$25 per ton. Capt. Thomas Pollard, the competent Superintendent, has seen long service as a mining engineer and mine manager, and the results attained at the Rosier are of a highly encouraging character, and tend to give renewed confidence not alone to the company itself but to all interested in the mining developments of Maine.

MANHATTAN.—The developments on this valuable mining property consist of a shaft 65 feet in depth and a crosscut 127 feet in length cutting four distinct ore-bearing veins. One of these veins, 52 feet distant from the shaft, is 1-2 feet in width and consists of massive sulphurets which will average fully 25 per cent. copper. A winze is being driven down upon this vein, and if the showing remains permanent as the sinking progresses the outlook will be brilliant indeed. The mine is now fully equipped with a new engine and boiler, and a Deane pump of large capacity which will readily take care of all the water likely to be encountered for a long to come. Three shifts of workmen are employed, under the direction of Mr. J. A. Lawrence, formerly of the Northern Belle Mine, Nevada.

TAPLEY.—This well known property adjoins the Manhattan, and has made a most wonderful surface-showing wherever work has been done on the line of the vein. H. S. Coffey has taken a contract to sink the shaft to a depth of 100 feet, and work is progressing rapidly; present depth about 40 feet. The shaft is driven vertically and is calculated to cut the vein at 100 feet.

Egypt.

FRANKLIN EXTENSION.—Work continues uninterruptedly on the Franklin Extension and the drift on the 100 foot level is

being pushed with energy. The drift is on the vein and shows good ore.

HARVEY ELLIOT.—Andrew Peters, Foreman of the Harvey Elliot Mine, called on us yesterday afternoon and reported developments as progressing very satisfactorily. The shaft is down 75 feet in good working rock and sinking is progressing with steam drills at the rate of a foot per day. The hoisting works run very perfectly.

COPPEROPOLIS.—Are continually working a full force of men through all the bad weather, making good headway in sinking the shaft. Steps are being taken to purchase proper machinery to facilitate the development of the mine, which will be forwarded as soon as possible, and the people need not be surprised if they should hear a whistle from Egypt before the snow disappears.—[Bulletin, Feb. 25.]

MILTON.—Making good progress in all the workings of the mine. The vein in No. 1 winze is increasing both in size and quality of ore, and gives signs of soon verifying the most sanguine expectations of all interested in the success of legitimate mining.—[Bulletin, Feb. 25.]

GOULDSBORO.—A meeting of the stockholders of the Gouldsboro Silver Mining Company was held last week in Ellsworth at the office of J. B. Redman, Esq., Secretary of the Company. Owing to the storm, the Boston stockholders were prevented from being present but about 52,000 shares out of an issue of 90,000 were represented. Joseph H. Woodford, Theo. J. Keith and Henry H. Seaver, of Newton, Mass., were elected Directors. By the by-laws of the company, all other officers are chosen by the Directors. The water has been pumped out of the mine and sinking will probably be commenced at an early day. It will be with great pleasure we witness the resumption of active mining operations at the Gouldsboro. It is too valuable a mining property to be idle.

SUNBURST.—The following is the annual report of the Superintendent, presented at the recent meeting of the Company in Ellsworth:

SUNBURST COPPER AND SILVER MINING CO., SURRY, ME., U. S. A., Feb. 11, 1882.

To the President, Directors and Stockholders of the Sunburst Copper and Silver Mining Co., of Surry, Maine:

GENTLEMEN:—Agreeable to instructions received from you, I commenced on April 1, 1881, sinking a shaft (7x9) on the vein, on the bank of the river and within about twenty feet of high water mark. I have now reached a depth of sixty-two (62) feet, and am happy to say there is a steady and gradual improvement both in the quality and quantity of the mineral. We have encountered a good deal of calcite and fluorspar, which is a very promising indication. The ore is a mixture of bornite, chalcopryite, pyrites and malachite. On the surface the vein matter was only three inches wide; at our present depth, sixty-two feet, it is over three feet wide, and widening as we go down.

The following assays will give some idea of the promise of this property, when sufficiently developed: Copper (selected) 31.7-10 per cent., cash value \$114.12 to the 2000 lbs.; gold and silver, (only) gold—10 dwts. 3 grs., cash value, \$10.48—silver, 2.1-10 ozs., cash value, \$ 2.41—total cash value, \$12.89 to the 2000 lbs.; copper, gold and silver—copper, 8.9-10 per cent., cash value, \$32.04—gold, 10 dwts. 7 grs., cash value, \$10.66—silver, 7.8-10 ozs., cash value, \$8.99—total cash value, \$51.67 to the ton of 2,000 lbs.

I have timbered the shaft down seventeen feet into solid rock; it will be unnecessary to timber any more for a long time, if at all. I have built a shaft house 20x26, with wing 18x18, blacksmith shop, powder house and ore sheds. In the wing of the shaft house, I have put up a "whim" for hoisting from the shaft with a horse. I find the "whim" with the horse to work quite well and expeditiously. We can work with the "whim" down to a depth of 100 or 150 feet, if not more, thereby making a great saving by enabling us to dispense with steam power, the first cost of which would be considerable.

The mine is equipped with all necessary tools, etc., for prosecuting the work. I have used all the economy possible compatible with the interests of the Co. and the development of the property. The buildings are all put up in the plainest manner possible, but strong. The shaft, though so close to high water mark, is exceptionally free from water. We have never been obliged to use a pump, except on rare occasions, and never have more than two feet of water in the shaft in 48 hours. The facilities for loading and unloading vessels are very good, no carting, as the ore can be taken on a tramway a very short distance, about 200 feet, to the vessel. The tramway can be built for a very small sum.

I have increased the number of men from 3 to 5, with a horse for hoisting. I hope before very long to be able to make the

property pay its working expenses. In conclusion I beg to say everything in and around the mines is in good working order. The whole of which is respectfully submitted.

Your obdt. servant,

M. DONELAN, SEPT.

The following is the latest assay made of Sunburst ore:

Boston, Mass., Feb. 15, 1882.

Mr. M. Donelan, East Surry, Me.:

Sir—The sample of ore from the 62ft. level of the Sunburst mine, County of Hancock, State of Maine, received from you the 14th instant, for examination, contains in the ton of 2,000 pounds, as follows:

Gold, 13 dwt. 4 gr., value.....	\$ 12.60
Silver, 8 3-10 ounces ".....	7.24
Copper, 6 7-10 per cent. ".....	24.12

Total value per ton.....\$ 43.96

Yours Respectfully,

WINTHROP W. FISK, B. S., State Assayer.

British Provinces.

The antimony mines at Lake George, N. B., employ over one hundred men.

The Government revenues from the mines and minerals of Nova Scotia during 1881 amounted to \$101,700.

The Maple Leaf says a sample of ore from Steadman and Bennett's mine was assayed by Mr. Best, of St. John, and gave 68 1-4 per cent. of copper.

The Copper Prince Mining Company, of New York, have completed their organization and the stock is now ready for issuance. The Company are negotiating for a concentrator, crusher and engine, and work upon the property will commence as soon as the snow is off the ground.

At the Spring Hill Coal Mines in Nova Scotia, a tunnel connecting the old mine with the 14 foot seam discovered some time ago has just been completed; it is on the 900 level and is 500 feet in length. The occasion was celebrated at McNutt's hotel on the 24th by an oyster supper tendered the men engaged in the work by the popular Manager, Mr. Hall.

The company engaged in working the copper mine at Dorchester, N. B., have ordered the mine closed and operations discontinued; Mr. Revere and his assistants have, accordingly, returned to Boston. It is not known to outsiders whether the mine has failed to come up to the expectations of the purchasers, or whether some scheme is on foot which can best be furthered by a temporary suspension of operations.

A discovery of marble has lately been made in the district of Thunder Bay. It is pure white, rather soft and takes a good polish. We have been favored with samples. A small piece we have had turned and polished and it makes a very pretty button. The exact location has not been stated but it is in the neighborhood of the Mattawan river, a short distance only from Prince Arthur's Landing and can be easily reached by railroad. Capital is wanted to secure the property which at present belongs to the government.—[North Shore Miner.]

The Montreal Herald of Feb. 22 says that a party just returned from Prince Arthur's Landing, Lake Superior, reports considerable excitement in that place over the big bonanza struck on Pie Island, at a depth of 140 feet. It is said to be equal to anything ever found on Silver Islet, out of which, it is said, the owners have taken over \$17,000,000 worth of silver. Pie Island contains about 10,000 acres, and is said to have a great many good veins besides the one now creating such a furore at the little hamlet, where the hopes of the people are poised between the railroad and mining interests to make a boom.

From the report of the Commissioner on Crown Lands we find that the quantity of ore taken out at the different mines in the counties of Addington, Frontenac, and Lanark and shipped at Kingston and Brockville during 1881 amounts to 20,144 tons. A total quantity of 11,600 tons of ore has been brought to the surface at the mines in the townships of Levant and Bedford. The phosphates mined in the interior and shipped at the ports of Kingston and Brockville aggregate 6,919 tons. The average prices obtained for iron ore at the ports of shipment are said to be \$3, and for phosphates \$13.50 per ton.—[Kingston News.]

The Montreal Gazette of Feb. 21 says: The prospects for the coming season are that there will be a universally brisk trade in Canadian phosphates, and we understand that already sales have been made for spring delivery, but the terms were not made public. Dealers quote No. 1 quality—say 75 to 80 per cent.—at \$16.50 @ \$17.50 per ton f. o. b. here. Up till within a week or so since the snow roads have been favorable for hauling it in the Ottawa district from the mines to the river banks and railway stations, and if freights are at all favorable it is said a large quantity will be shipped soon after the opening

of navigation. Advices from England report the market steady. Canadian phosphates of good percentage being quoted at 1s 3d per unit in Liverpool. South Carolina phosphate, ungraded, is steady at \$8.75 @ 9 per 2,240 lbs. f. o. b. at Charleston.

Croppings.

[Compiled, Condensed and Confiscated from our Exchanges.]

Wire silver in large quantities has been found in the Moulton Mine, Montana, about 20 feet from the Alice boundary.

Large iron ore deposits of great richness and value have been lately surveyed in Lapland by practical mining engineers. The district is near the village of Inkkasjarvi, in Swedish Lapland.

Sherman, Gleason & Proctor have disposed of their marble quarry at West Rutland, Vt., together with their mill, houses, machinery at Hydeville, and the stock on hand at the quarry and mill, to the Dorset Marble Company, for \$100,000.

The New York Stockholder hears good reports from the Hamilton Reduction Company. They expect very shortly to be able to demonstrate to the public the value of their process. The company are said to be free from debt, and the work is progressing favorably.

A. R. Chisolm & Co., of the New York Mining Record, have organized the Wood River Smelting Company, and secured the services of the well-known engineer and metallurgist, Mr. Frederick G. Corning. The company own several promising Wood River mines, including the Keystone.

The claim of the Eureka Consolidated Mining Company for ore extracted by the Richmond Company from the so-called "Potts chamber" in that part of the property which was judicially awarded to the Eureka, has been compromised. The Richmond Company have agreed to pay the Eureka the sum of \$100,000 in cash, and to give their deed of that part of the Utah claim which lies southeast of the compromise line.

Soda, which is now imported at a cost of from \$52 to \$55, can be taken from the soda lakes of Wyoming and placed in the Eastern markets at a cost not exceeding \$25 per ton. The Wyoming soda is chemically purer than the imported, and the method and rate of supply indicate practical inexhaustibility. Means are now being taken to secure early access to these deposits, and when these are perfected our import totals will permanently lose an annual item of from six to seven million dollars.

The Wood River Miner of Feb. 11 contains an interesting description of the claims owned and operated by the Warm Spring Creek Consolidated Mining Company, of Boston, of which Major W. A. Rooks is manager. The Miner says: "They have upwards of 1,000 tons of ore on the dumps as the proceeds of prospecting their claims. This ore will run from 100 to 500 and in some instances 1,000 ozs. to the ton. It is principally smelting ore. Assays from some of the claims, the veins of which are chiefly quartz, show gold in small quantity. Many of the mines in these groups have received considerable development work. The company are making preparations for extensive development of their properties this season, and we look for an output of many thousand tons of high grade ore."

An effort is about to be made to resume operations at the Timmouth (Vt.) Iron and Marble Works. On the eastern slope of the valley there exists the brown hematite ore, rare in this country, covering an area of nearly or quite five square miles. In the early history of the town, ore was obtained from nine different mines. The furnaces that were run in Timmouth and Clarendon were run at the same time with the ores that were dug from these mines. Some of these beds have been worked to a depth of seventy feet without getting through the strata, while in many places, where ore has been dug, it is found near the top of the ground, and even on the surface. The supply is inexhaustible. On the western side of the valley, running the whole length of the town and stretching farther on beyond the limits of the town to the north and south, there is every variety and grade of marble that is worked in Rutland county.

Trouble in a Silver Mine.

[Laramie Boomerang.]

A few nights ago a well-organized effort was made to jump the Centennial Mine, which came very near being a success. The parties who undertook to jump the mine were two Rocky Mountain polecats with a bad record. Almost as soon as they entered the tunnel from the east the men in the mine began to be suspicious that somebody with a bad breath was in the lower level. The suspicion grew until it assumed about the size of a bale of hay. It was resolved to drive out the intruders.

Major Downey went down and threw a chunk of free-milling

quartz at the enemy. Then the Major went back to the rest of the party to hold a consultation. The rest of the party didn't seem so tickled to see him as he thought they ought to be. They shunned and evaded him, and told him that his presence wasn't agreeable under the circumstances. Although the mine is a very valuable one, it was almost decided at one time to abandon it to the jumpers. At last, however, everybody made a grand rush for the tunnel and demolished the enemy with long-handled shovels. Major Downey handed the above information into the office with a long pole. He also told a friend that he would go out of town this forenoon to a quiet spot beyond the grave-yard and change his clothes.

The Rocky Mountain polecat, before it is domesticated, is not prized as a songster very much, but he has a way of making his presence felt wherever he goes, and even in death you cannot forget him. There was one of these docile creatures got into our cellar once, a good many years ago, and the ventilation being very poor, the air was soon vitiated to such an extent the clock stopped. We don't care for death in any form in which it may come. Those who know us will agree that we never weaken. We have faced the deadly watermelon when strong men were falling thick and fast, and we have stood at the muzzle of a daily newspaper and mowed down spring poets like broad swaths of timothy hay and never weakened or squealed; but the dappled quadruped with the all-pervading presence appeals to our valor in vain. Our victory over him has always been vicarious.

EASTERN INDUSTRIES.

The Ellsworth Foundry and Machine Shop is now ready for business.

The bark mill and leach room at Shaw & Brother's tannery, Forest City, were burned Saturday. Loss, \$10,000; insured, \$5,000.

A carload of monuments and other granite work were shipped to Greenville, Ohio, on Monday last, by the Rockland Granite Company.

The Haskell Silk Company of Saccarappa have recently received a number of looms and will soon begin the manufacture of web-silk.

The Coburn Brothers' steam mill in Greene is about completed. They are now busy sawing shingles and doing custom grinding. The grist mill works finely.

Mr. Giles Loring, at his shipyard in Yarmouth, is building a bark of about 500 tons, for Boston parties, and has also contracted to build a three-masted schooner of 600 tons for Portland Parties.

Messrs. G. E. Deering & Co. have taken a five years' lease of the large three story building on the corner of Commercial wharf and Commercial street, Portland, and are fitting it up for the fish canning business.

C. E. Lane, of the firm of Lane, Jones & Roberts, of Brooks, has bought three hundred cords of pine wood to be manufactured into kits, pails and tubs. They have their mill very nearly completed and most of the machinery is in place.

The pork-packing firm of John Bird & Co., of Rockland, have made since November last 12,000 lbs. of sausages; 2500 lbs. of head cheese; 700 lbs. of bologna; a hundred or more tierces of lard; and many hundred hams, barrels of pork, pigs' feet, etc.

Business at the Foxcroft Spool Works will be brisk this year, judging from the crew employed by the company just now. They are now employing at the mill and in the woods cutting and hauling white birch, nearly one hundred and fifty men, and two hundred horses.

Another of those immense castings for which the Lincoln Iron Works, Rutland, Vt., are becoming noted was poured at their foundry a few days since. The casting was a rubbing-bed for the Wakefield Variegated Marble Company of Burlington, and weighed 12,000 pounds.

The ice men have been very busily engaged during the past week and a large amount of the crystal crop has been harvested. A large number of new concerns have commenced operations and should we have favorable weather again the amount cut will be considerably greater than recently estimated by the MINING JOURNAL. The storm of the present week has necessitated the temporary suspension of work, the ice being covered with several inches of water.

The sheep breeders of Maine are requested to meet in Carra-basset Hall, North Anson, March 2nd, for the purpose of forming

ing a sheep breeders' association. It shall be called the Maine Sheep Breeders' Association. The object of this association is in its own sphere and in cooperation with other similar associations in other states, to preserve the purity of the Spanish Merino race of sheep, encourage their future improvement, and as a means to these ends to provide for the future registration of the histories and pedigrees of the flock of Spanish Merino sheep in Maine.

There probably never has been a time in Auburn's shoe history when the weekly shipments represented so much value as they do this week. The number of cases shipped (2,147) has been equally as large, but the same quantity of goods, of so fine a quality, has probably never before been shipped in one week. The firms who are now making the bulk of the shipments, are running on fine calf work, chiefly. Of the 2,147 cases, over 1,800 contained men's goods of a fine class. One or two dealers tell us: "We never were making so many nice goods as at present." The Auburn shoe business has been completely revolutionized, and the quality of work made has been gradually and constantly improved until that city has become known as a center for men's fine work. Three or four years ago, if 2,000 or so cases had been shipped from Auburn, three-fourths of them, probably, would have been split or grain work. The few firms now running on these heavy goods complain that their market has been constantly declining and that this year's run has been forebodingly light, as the tabular shipments show. More changes in the grade of the production will be made this year. It is a slow and difficult, but necessary transformation.—[Lewiston Journal.]

Railroad, Steamboat and Hotel Notes.

Steamer Mount Desert is undergoing repairs and being thoroughly renovated at Rockland.

The Nova Scotia Legislative Council have passed the Bill for the Consolidation of the Railways of that Province. Bravo!

Steamer Star of the East, which plies between Boston and the Kennebec, is receiving thorough repairs at East Boston.

Steamer City of Portland, of the International Line, has received thorough repairs and new machinery, at Portland, and will go on her route March 13.

Mr. E. W. Barton, formerly proprietor of the Lawrence House which was destroyed by fire at Old Orchard last fall, will shortly commence to rebuild.

Steamer Henry Morrison, having received thorough repairs to her machinery by Quinn & Co., at Portland, has returned to Rockland where she will have new paddle boxes put on her and be otherwise improved.

Mr. F. G. Staples of the Sea Shore House, Old Orchard Beach, will build an addition which will be 40 ft. by 80 ft. and three stories high. The addition will face the beach and join the main house on the northwest side.

The annual meeting of the Knox & Lincoln Railroad Company will be held in Damariscotta on Wednesday, the 8th day of March. The annual report of the directors will show that the gross earnings of the road for the year have been \$129,231.99, being \$5,541.33 larger than in 1880. The operating expenses, including renewals and repairs were \$86,066.78, being \$8,578.05 larger than in 1880. The net earnings were \$46,165.51, being \$2,939.72 less than in 1880.

Car No. 32, just completed at the Eastern railroad car shops, has made its appearance on the road. It is elegantly fitted, and contains a model fire extinguisher, worked by a cylinder beneath the car. A hose connected with the tank enables the operator to direct a stream to any part of the interior of the car. No. 32 completes the first six of the twenty new cars to be built by the company this winter. They have all been finished in California redwood. The next half dozen will be finished in cherry.

The Portland Company have two eight-wheel locomotives of thirty-six tons each, ready for delivery to the Aroostook River Railroad. The last of the lot of hay cars building for the Portland and Rochester road were delivered yesterday. Among other work twenty dump cars for coal are building for the Portland and Ogdensburg road, also five twenty-five ton dump cars of a new and peculiar construction for the same purpose, for the Maine Central road. Next week the company commence to deliver locomotives on a large contract with the Northern Pacific road. They will furnish the road in all thirty-four of their regular eight-wheel 36-ton engines.—[Sunday Times.]

The 23d annual report of the Railroad Commissioners of Maine is in the hands of the printers. From repeated and

careful observation, the Commissioners are enabled to render a very gratifying account of all the passenger railroads in the State, and to report them not only safe, but the principal lines in excellent condition, and most of the others quite satisfactory. The year just closed has been one of great prosperity throughout the State and country, in which the railroads have shared. Five new railroad corporations were organized in 1881: The Old Orchard Junction R. R., which runs along the beach a distance of two and one-half miles; the Bangor & Katahdin Iron Works R. R. to extend from the Bangor and Piscataquis R. R. in the town of Milo, to the Katahdin Iron Works, 19 miles; the Aroostook River Railroad Company, from Caribou to Presque Isle village, 12 1-2 miles; the Bridgton and Saco River Railroad Company, from Bridgton Center to a point on the line of the Portland and Ogdensburg in the town of Hiram 15 1-2 miles; the Lewiston and Auburn Horse Railroad Company, through certain streets, in those cities, a distance of track of about five miles. In its practical workings the general railroad law has been found defective in several respects. For instance, the Bangor and Katahdin Iron Works R. R. was first organized for a narrow-gauge road. Subsequently the company decided to build the standard gauge, but it was found there was no legal way to make the change except by commencing anew and organizing a second time, which was done. The law should be amended so as to provide for such cases as this. "We might indicate other amendments," say the Commissioners, "but as there will be no regular session of the Legislature until 1883, we defer for the present from doing so."

The improvements on The Rodick are now so well advanced that some idea can be formed of its appearance when completed. It will undoubtedly be the largest hotel in the State and of course by far the most extensive in Bar Harbor. In the new wing is a spacious music room, 105 by 42 feet, which is to be elegantly fitted up and furnished with a permanent stage and the necessary ante-rooms; an entirely new feature in this locality. The principal parlor in this wing is 70 by 30 feet, 15 feet posts, and will be an elegant apartment. At the northerly corner, on Main street, is a large octagon tower ninety feet in height, and from the roomy lookout chamber at its top there is a most delightful view of the mountains, the harbor, the village and its environments. At the base of the great tower is to be the new office of the hotel, complete in all its appointments. There are over four hundred sleeping rooms. The building is to be lighted with gas, and furnished with all the modern improvements. In the rear of the new wing is the large new dining-room with accommodations for a thousand persons. A broad piazza will surround the entire establishment, affording a noble promenade, commanding new and pleasing views at every turn. From the windows of the chambers the views are magnificent; the elevated site of the building giving a clear range in all directions. Broad staircases, in three different parts of the buildings run from basements to attic. There is also to be a baggage and probably a passenger elevator. The new steam fire engine is housed in a building immediately in the rear of The Rodick and there are several powerful hydrants about the grounds, thus affording ample protection from fire. There is also water in every story and fire escapes in the proper places. The extensive lawns and grounds surrounding the house are to be graded and laid out conveniently for tennis and other out of door amusements, and when completed The Rodick and its surroundings will be a most notable addition to the many large and elegant summer hotels of Mount Desert.—[Mt. Desert Herald.

Nuggets.

—Win. Beazley & Co., of Bucksport, have contracted to build a large three masted schooner for Bangor parties.

—It is anticipated that the line of telephone will be extended soon to Castine, Blue Hill, Ellsworth and Bar Harbor.

—A meeting of citizens of Bangor interested in the proposed Shore Line Railroad will be held at the Common Council Room at 4 o'clock this (Friday) afternoon.

—Oxford county, Maine, has furnished Maine five Governors, and Wisconsin, Oregon, Florida and Massachusetts one Governor each, five United States Senators, twenty-four Representatives to Congress, three Cabinet officers, four foreign Ministers, and uncounted Judges.

—The sale of delinquent Douglass stock occurred in this city on Friday last. There were sold 6,740 shares at prices ranging from 25c to 40c. The purchasers were F. H. Williams, F. M. Laughton, F. W. Hill, B. B. Thatcher, and C. P. Wiggin, of Bangor, and W. N. Clark, of Peabody, Mass.

—The Courier-Gazette says: Albert Fuller, of Appleton, lost an ox a few days ago under peculiar circumstances. He was

turned out with other cattle to water, as usual, and going on a ledge he plunged head foremost into a snowdrift 15 feet deep and was smothered. It is reported as a case of suicide.

—Messrs. Moore & Wright, the present contractors, have secured another contract for dredging the balance of about 120,000 yards at Lubec Narrows. Another dredge boat, similar to the one now used, will be employed in the work next season. The channel is to be completed by Dec. 2, 1882. Work is at present suspended but will be resumed again early in the spring.—[Eastport Sentinel.

—The Augusta postoffice is one of the most important in the country. It takes some thirty men to do the business of the office, and as many as eight hundred registered letters are frequently received in a single day. In amount of second-class matter mailed it stands fifth in the whole United States, sending off in 1881 3,251,388 lbs., against 4,163,075 lbs. sent at Boston. It paid into the department on second-class matter \$65,027.76 against \$83,261.50 by Boston. Its per cent. of increase in business over the preceding year is 46.6, against an increase of 10.9 per cent. in Boston. 4.64 per cent. of the total amount of second-class matter collected in the United States came from Augusta, and 5.95 per cent. from Boston. About 6,000,000 circulars are annually sent from Augusta.

—We have received from Ehrick Bros., of New York, a brace of interesting pamphlets, which are sent out as the avant couriers of the Spring number of that well-known magazine of fashion, Ehrichs' Fashion Quarterly. The first is the Premium List of the Quarterly, and tells its readers what good things they may secure by subscribing to the Fashion Quarterly themselves, and inducing others to do the like. The second pamphlet is entitled Shopping in New York, and is intended to convey an idea of the plan and scope of the Fashion Quarterly. In this pamphlet of 16 quarto pages, almost every department of a large New York retail store is represented to a limited extent. The careful mother finds in it a few standard styles of underwear; of children's clothing for both boys and girls, of wonderfully cheap embroideries; of hosiery; of window curtains; and a dozen other necessities of housekeeping; while the less thoughtful daughter will enjoy the jewelry, the laces, and the knick-knacks for room adornment which are spread before her. A blank form for sending orders occupies the last page, and fittingly completes the little book. For only fifty cents a year the publishers offer four beautiful fashion books, issued at the beginning of the successive seasons, and give to each subscriber, as well, the privilege of making a selection from a list of choice music, every piece of which is retailed by the music dealers all over the country, at forty cents. The Fashion Quarterly is published by Ehrich Bros., of Eighth Avenue, New York, who will send the pamphlets, free on application.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 1, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Amouez	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3
Atlantic L. S.	13 1/2	14 1/2	13	14	13	14	13	14	13 1/2	14 1/2	13 1/2	14
Atlas	13	14	13	14	13	14	13	14	13	14	13	14
Blue Hill Copper	25c	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Brunswick	13	15	12	15	12	15	12 1/2	13	12	13	12	13
Calumet & Hecla	231	233	231	233	234	235	234	235	234	234 1/2	235	235
Catalpa	1/2	62 1/2c	1/2	1/2	1/2	62 1/2c	1/2	1/2	1/2	62 1/2c	55c	60c
Central	1	1	1	1	1	1	1	1	1	1	1	1
Copper Falls	1	1	1	1	1	1	1	1	1	1	1	1
Contentment	1	1	1	1	1	1	1	1	1	1	1	1
Douglass	1	1	1	1	1	1	1	1	1	1	1	1
Dana	1	1	1	1	1	1	1	1	1	1	1	1
Duncan Silver	1	1	1	1	1	1	1	1	1	1	1	1
Empire	10 1/2	11	10 1/2	11	11	11 1/2	11	11 1/2	11	11 1/2	10 1/2	11
Franklin	10 1/2	11	10 1/2	11	11	11 1/2	11	11 1/2	11	11 1/2	10 1/2	11
Harshaw	3	3 1/2	3	3 1/2	3	3 1/2	3	3 1/2	3	3 1/2	3	3 1/2
Huron	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2
Hanover	1	1	1	1	1	1	1	1	1	1	1	1
Humboldt	1	1	1	1	1	1	1	1	1	1	1	1
International	1	1	1	1	1	1	1	1	1	1	1	1
National	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2	2	2 1/2
Osceola	30	32	30	32	30	31	31	32	31 1/2	32 1/2	31	32
Pewabic	11 1/2	12	11 1/2	12 1/2	12	12 1/2	12	13	12 1/2	13	12	12 1/2
Phoenix	1	1	1	1	1	1	1	1	1	1	1	1
Pontiac	1	1	1	1	1	1	1	1	1	1	1	1
Quincy	43	43	43	43	43	43	43	43 1/2	43 1/2	44	45 1/2	45 1/2
Ridge	1	1	1	1	1	1	1	1	1	1	1	1
Silver Islet	18	20	17	20	18 1/2	20	18	20	18	20	18	20
Star	1	1	1	1	1	1	1	1	1	1	1	1
Sullivan	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	1 1/2	1 1/2	1 1/2

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If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

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Bucksport and Bangor R. R.

CHANGE OF TIME, Feb. 29, 1882.

	A. M.	P. M.
Leave Bucksport,	5.30	5.00
Arrive Bangor,	6.42	6.05
Leave Bangor,	7.35	7.15
Arrive Bucksport,	8.45	8.25

A mixed train leaves Bangor at 11.00 A. M. on Mondays, Wednesdays and Fridays.

Leaves Bucksport Tuesdays, Thursdays and Saturdays, after arrival of steamer.
The 5.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.

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Stage leaves Blue Hill at 12 M. to connect with 5 o'clock train for Bangor.

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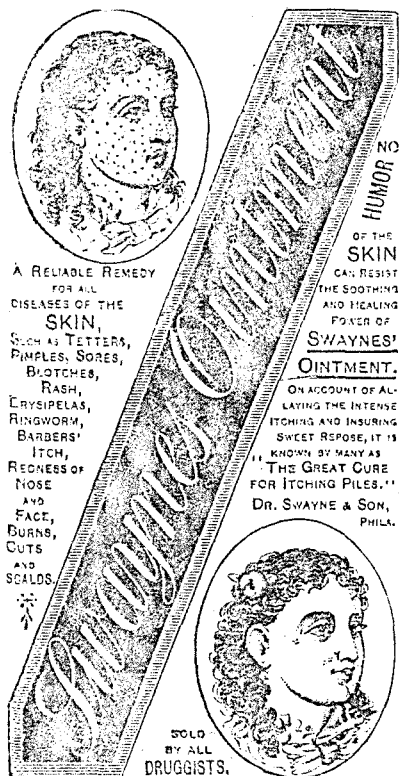
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Per order of the President,
EUGENE H. DAKIN,
Secretary.
Bangor, February 24, 1882.

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SECRETARY'S OFFICE.
BLUE HILL, ME., Jan. 25, 1882.
The Directors have decided to levy an assessment of FIVE CENTS a share on the capital stock of this company, payable by stockholders of record at the close of business, February 10th, 1882.
Notice is hereby given that after that date no stock will be transferred until the assessment thereon is paid.
By order of the board of directors.
H. A. TRIPP, Secretary.

ASSESSMENT NOTICE,
OFFICE OF THE TREASURER

OF THE
Hercules Copper Company,
OF PENOBSCOT, ME.
135 Middle Street, Portland, Maine.

PORTLAND, ME., Feb. 7, 1882.
Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, Feb. 20th, 1882, by stockholders of record at the close of business, February 15th, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 25th day of March, 1882, will be delinquent and will be advertised for sale at public auction and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale will be sold.

The stock of this Company will be exchanged, share for share, for the stock and club receipts of the Hercules Mining Co.

By order of Board of Directors,
JOHN N. LORD, Treasurer.

H. N. PINKHAM, STOCK BROKER,

Member of Boston Mining and Stock Exchange,

35 CONGRESS STREET, Room 29, BOSTON.

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For Boilers, Steam and Water Pipes.

It is cheap, durable, and the best non-conductor of heat of any covering made. It can be taken off and replaced on the pipes any number of times without injury to the covering. Any person can put it on the pipes. SEND FOR A CIRCULAR.

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SAMUEL HOBBS & CO.,

No. 169 Devonshire Street, Boston,

SUPPLY AT SHORT NOTICE

Sets of Mining Account Books, Seals, Prospectuses,

GEOLOGICAL REPORTS, MAPS, BONDS, &c.

Send for Samples and Prices of our STOCK CERTIFICATES.

ESTABLISHED 1871.

Maine State Assay Office.

FRANK L. BARTLETT,

Assayer and Chemist for the State of Maine.

Office and Laboratory, 385 Congress Street, Portland, Me.

All assays made at the Maine State Assay Office are duplicated and will be guaranteed correct. Samples always retained and in case of doubt will be submitted to the U. S. Assay Office for adjustment.

Samples of Ores and minerals forwarded will receive attention from Mr. Bartlett personally.

Full and complete analyses of ores and all mineral substances will be a specialty. Having a laboratory complete in every particular and fitted with all the modern improved apparatus, superior facilities are afforded for chemical work either medical, legal, microscopical or analytical.

Maine ores and all the leading European and Western ores can be seen at the Maine State Assay Office. Mining men and others are invited to call. Send for circular.

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E. GROSBECK, of New York, Treasurer.

Maine Mining Journal.

DEVOTED TO THE MINING AND INDUSTRIAL INTERESTS OF THE NEW ENGLAND STATES AND BRITISH PROVINCES.

[Entered at the Post Office in Bangor, Maine, as second-class mail matter.]

5.—10.—115.

BANGOR, MAINE, MARCH 10, 1882.

{ 82 per Year;
6 Cents per Copy.

W. FRANK STEWART,
Practical Geologist and Mining Engineer.

Parties who may desire my services as a mining geologist, in any portion of North America, can confer with me by writing to the care of the Mining Record, No. 61 Broadway, New York; or to the MAINE MINING JOURNAL, Bangor, Me.

W. F. STEWART, M. E.

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INTEREST ALLOWED on deposits

Blue Hill Copper Mining & Smelting Co.

OFFICE, Rooms 14 and 15 Simmons Building, BOSTON, MASS.

MINES, BLUE HILL, ME.

Capital, \$500,000. 100,000 Shares, Par Value, \$5.00.

S. C. BLANCHARD, President.

WM. M. JEWETT, Treasurer.

JOHN M. MERRILL, Secretary.

J. H. MOYLE, Superintendent.

Cherryfield Silver Mining Co.

OFFICE, CHERRYFIELD, ME. MINES, CHERRYFIELD, ME.

Capital \$500,000. 100,000 Shares. Par Value \$5.00**Unassessable.**

SAMUEL N. CAMPBELL, President.

WM. FREEMAN, Treasurer.

WM. FREEMAN, Secretary and General Manager.

Directors—JAMES A. MULLIKEN, SAMUEL N. CAMPBELL and WM. FREEMAN, of Cherryfield; THOMAS DALBY and F. H. WILLIAMS, of Boston.

WM. A. LEONARD, Supt.

Copperopolis Mining Company.

OFFICE, 4 SEARS' BUILDING, BOSTON, MASS.

Capital, \$500,000. Par Value of Shares, \$2.50.**Unassessable.**

GEO. E. HARRINGTON, President.

S. L. SYMONDS, Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—GEO. E. HARRINGTON, GEO. WEST, FRANCIS TUCKERMAN of Salem, Mass.; P. MULLAN, L. W. HODGKINS of Ellsworth, Me.

JOHN SHOENBAR, Superintendent.

Deer Isle Silver Mining Co

OFFICE, PORTLAND, ME. MINES, DEER ISLE, ME.

Capital, \$500,000. 100,000 Shares. Treasury Fund, 52,000 Shares.

A. H. HARRIS, President.

GEO. F. GOULD, Treasurer.

GEORGE F. GOULD, Secretary.

Directors—A. H. Harris, of New York; Nathan Cleaves and Frank C Crocker, of Portland; C. W. Bryant, of Deer Isle and George D. Greeley, of Boston.

S. Z. DICKSON, Superintendent.

Gouldsboro Silver Mining Co.

OFFICE, ELLSWORTH, ME. MINES, GOULDSBORO, ME.

Capital, \$500,000. 100,000 Shares. Par Value, \$5.00.

Judge A. P. WISWELL, President.

C. C. BURRILL, Treasurer.

J. B. REDMAN, Sec'y. FRANCIS WORCESTER, Manager.

Directors—A. P. Wiswell, C. C. Burrill and Eugene Hale, all of Ellsworth.

W. I. VALENTINE, Superintendent.

Milton Mining and Milling Co.

OFFICE, 4 SEARS BUILDING, BOSTON, MASS.

MINES, SULLIVAN, ME.

Capital, \$500,000. 200,000 Shares. Par value, \$2.50

CHAS. H. LEWIS, Pres't.

GEO. E. HARRINGTON, Treas.

W. O. ARNOLD, Secretary.

Directors—Chas. H. Lewis, Geo. E. Harrington, Geo. West, J. D. Prescott, W. O. Arnold.

JOHN SHOENBAR, Superintendent.

Mammoth Copper Mining Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

250,000 Shares.

Par Value, \$2.00.

EUGENE M. HERSEY, President.

JOHN R. MASON, Secretary.

G. W. PICKERING, Treasurer and Transfer Agent.

W. D. LEWIS, Assistant-Treasurer and Secretary.

Directors—E. M. HERSEY, T. N. EGERY and SAMUEL STERNS, of Bangor; W. D. LEWIS, of Boston and CHAS. DUFF, of Blue Hill.

CHARLES DUFF, Superintendent.

Pine Tree Silver Mining Co.

OFFICE: 24 BROAD STREET, NEW YORK; MINES, SULLIVAN, MAINE

Capital, \$500,000.**Par Value of Shares \$5.00.****Unassessable.**

GEN. JOHN M. CORSE, President.

ROBERT L. CUTTING, JR., Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—COL. CHAS. H. LEWIS, GEN. JOHN M. CORSE and ROBERT L. CUTTING, JR., of New York.

Stewart Copper Mining Com'y.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

HON. FREDERICK M. LAUGHTON, President.

C. F. BRAGG, Treasurer.

C. F. BRAGG, Secretary.

Directors—Frederick M. Laughton, F. W. Hill, C. F. Bragg and Thomas White, of Bangor; S. N. Stockwell and G. B. Putnam, of Boston.

DANIEL DUNN, Superintendent.

Sullivan Mining Company.

OFFICE, 17 Tremont Bank Building, BOSTON, MASS.,

MINES, SULLIVAN, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

GEORGE B. BROWN, President.

F. R. NOURSE, Treasurer.

CHARLES L. PERRIN, Secretary.

Directors—Geo. B. Brown, B. S. Grant, C. F. Farrington, J. G. Russell, Dudley R. Child, E. A. Birchard and Frederic R. Nourse.

Twin-Lead Mining and Smelting Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

125,000 Shares.

Par Value, \$4.00.

EUGENE M. HERSEY, President.

SAMUEL STERNS, Vice President.

JOHN R. MASON, Secretary and Treasurer.

Directors—E. M. Hersey, Samuel Sterns, John S. Jeuneess, Jacob Stern, F. H. Williams and Thomas N. Egery, of Bangor; Charles Duff, of Blue Hill.

CHARLES DUFF, Superintendent.

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Office at Ellsworth, Me.

Mines at East Surry, Me.

Capital \$500,000. 500,000 shares. Par Value \$1.00, unassessable. 268,500 in Treasury.

President, Jas. W. Davis; Treasurer and Secretary, M. Donelan.

Directors—Jas. W. Davis, Ellsworth, Me.; M. Donelan, East Surry, Me.; Dr. L. W. Hodgkins, Ellsworth, Me.; Major General Conyers Power, England; Jas. F. Davis, A. W. Clark, H. B. Mason, Ellsworth, Me. M. DONELAN, Supt.

YOUNG HECLA Mining and Smelting COMPANY.

Office at Bangor, Me. Mines at Blue Hill, Me.

Capital, \$500,000.

100,000 Shares. Par Value, \$5.00 each. Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor, Me.; Vice President, Charles Hamlin, Bangor; Treasurer, C. P. Wiggins, Bangor; Secretary, W. F. Seavey, Bangor.

Directors—John S. Jenness, Charles Hamlin, Wm. D. Swazey, F. M. Loughton, Hanson Gregory, Jr., Horace P. Tobey and Frank H. Williams. F. H. WILLIAMS & CO., Financial Agents.

BLUE HILL CENTRAL Mining and Smelting COMPANY.

OFFICE.....BANGOR, ME.
MINES AT.....BLUE HILL, ME.

CAPITAL, \$500,000.

100,000 Shares. Par Value, \$5.00. Treasury Fund, 30,000 Shares.

Hon. Wm. C. Marshall, of Belfast, President; H. J. Preble, Esq., Vice-President; S. P. Johnson, Secretary and Treasurer; Directors—Hon. Wm. C. Marshall, H. J. Preble, Esq., Samuel R. Prentiss, J. S. Jenness and M. Preble.

Silver Hill Mining Company.

Office, 11 CENTRAL STREET,

Room 4, Boston.

Mines at Garland, Me.

Capital, \$500,000. 200,000 Shares. Par value, \$2.50, 25,000 Shares in Treasury.

President, John F. Hudson, Boston; Treasurer Chas. E. Parent, Boston; Clerk, Geo. A. Mudge Portsmouth, N. H.

Directors—John F. Hudson, Geo. A. Goodyear and Chas. E. Parent, of Boston; Geo. E. Hodgdon, of Portsmouth, N. H.

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APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund \$6,000 shares.

President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird. CHARLES K. MILLER, Supt., Camden.

EXETER SILVER MINING COMPANY,
Exeter, Me.

Capital, \$500,000. Shares \$5 each, unassessable; 40,000 shares in the Treasury.

President, D. N. Estabrooks; Vice President, J. Y. Richardson; Secretary and Treasurer, J. A. Blanchard. Directors—D. N. Estabrooks, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Lane, of Oldtown; — Sargent, of Brewer, and Charles Greenwood, of Corinna. Office at Oldtown, Me.

FAVORITE MINING COMPANY.

Bluehill, Me. Incorporated July 1, 1881.

Capital, 500,000 Shares, \$5 each; assessable. President, A. E. Herrick, Bluehill; Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

FANEUIL HALL & SULLIVAN MINING CO.
Incorporated Feb. 1880.

Capital, \$500,000, divided into 100,000 shares, forever unassessable.

Company's office at the Mine, West Sullivan. President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Farnum, F. W. Morrill and F. S. Tuttle, Boston; A. A. Hayward, Bar Harbor, Me. A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY
Blue Hill, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emory G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland; Roderick H. Candage, of Blue Hill.

McFARLAND SILVER MINING COMPANY
Hancock, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

ROBERT EMMETT SILVER MINING CO.
Egypt Bay, Hancock, Me. Incorp. July, 1879.

Capital, \$400,000; Shares, \$10 each.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett. P. MULLAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb. 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 Shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith. RICHARD SNOW, Supt.

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U. S. Deputy Mineral Surveyor for the territory of New Mexico.

27 Mining properties examined and reported on.

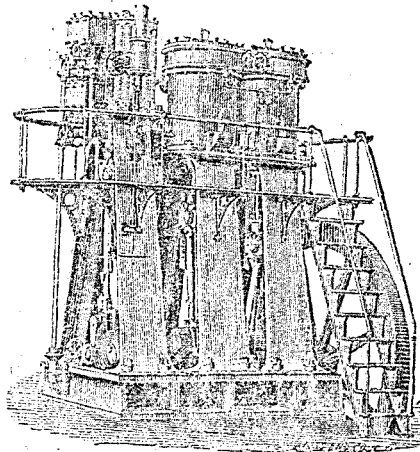
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MINES AT GORHAM, N. H.

Office, Portland, Maine.

Capital \$500,000. Shares 100,000.

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DIRECTORS:

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C. W. HOBBS, Secretary and Treasurer, Portland, Maine.

C. C. LANE, 7 Exchange Place, Boston. CHAS. H. LEWIS, 4 Sears' Building, Boston.

FRANK H. WILLIAMS, 22 Water St., Boston.

CONSULTING GEOLOGIST:

PROF. J. H. HUNTINGTON, 35 Congress St., Boston.

ENGINEERS AND METALLURGISTS
BINNS, KIDNEY & HOLLIDAY, 33 Hawkins Street.

SUPERINTENDENT:

J. M. JOHNSON, Gorham, N. H.

FINANCIAL AGENTS:

F. H. WILLIAMS & CO., 22 Water St.

ORES—Argentiferous Galena and Copper. PRESENT OUTPUT—Six tons daily. VALUE PER TON—Seventy-five dollars. COST OF REDUCTION, including freight, smelting, separation and refining—Twenty-seven dollars per ton.

Forty miners, and ten blacksmiths, carpenters, teamsters, etc., employed. The September development work will ensure an October output of twenty tons daily.

Sale of Delinquent Stock

STEWART COPPER MINING COMPANY.

Mines at Blue Hill, Me. Principal Place
of Business, Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, in Bangor, Me., (No. 3 Wheelwright & Clark's Block), on Saturday, the twenty-fifth day of March, 1882, at 2 o'clock P. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is ten (10) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued, are as below indicated in their appropriate column.

Name.	No. of Certificate.	No. of Shares.
Atlantic Copper Mining Co.	396	1,474 1/2
O. Bailey.	79	50
O. Bailey.	80	100
O. Bailey.	81	100
O. Bailey.	82	50
J. R. Bodwell.	87	500
J. R. Bodwell.	88	100
J. R. Bodwell.	89	100
J. R. Bodwell.	90	100
J. R. Bodwell.	91	100
J. R. Bodwell.	92	100
J. R. Bodwell.	93	100
J. R. Bodwell.	94	100
J. R. Bodwell.	95	100
J. R. Bodwell.	96	100
J. R. Bodwell.	97	100
J. R. Bodwell.	98	25
G. S. Bean.	106	100
G. S. Bean.	114	100
G. S. Bean.	115	100
G. S. Bean.	187	75
C. C. Burrill.	252	75
A. M. Bartlett.	315	300
Robert Caldwell.	318	101 1/2
H. P. Caldwell.	321	300
John Humphrey, Trustee.	265	100
Benj. Hinckley.	317	18 1/2
Bion R. Lane, Trustee.	240	100
Bion R. Lane, Trustee.	241	100
Bion R. Lane, Trustee.	242	100
Bion R. Lane, Trustee.	243	100
Bion R. Lane, Trustee.	244	100
Bion R. Lane, Trustee.	245	100
J. F. Porter.	288	18 1/2
G. M. Parker, Trustee.	292	25
Wm. H. Raymond.	293	75
H. N. Pinkham, Trustee.	398	100
H. N. Pinkham, Trustee.	314	200
H. N. Pinkham, Trustee.	315	200
H. N. Pinkham, Trustee.	316	200
H. N. Pinkham, Trustee.	317	100
H. N. Pinkham, Trustee.	318	100
H. N. Pinkham, Trustee.	319	50
Geo. F. Ropes.	503	75
J. A. Strout, Trustee.	32	37 1/2
J. L. Skolfield.	187	200
J. L. Skolfield.	188	250
James H. Stetson.	411	75
Edward Tyler.	429	75
James Young.	99	100
F. H. Williams, Trustee.	558	500
F. H. Williams, Trustee.	461	500
F. H. Williams, Trustee.	490	500
F. H. Williams, Trustee.	504	500
F. H. Williams, Trustee.	458	500
F. H. Williams, Trustee.	447	500
F. H. Williams, Trustee.	448	500
F. H. Williams, Trustee.	450	500
F. H. Williams, Trustee.	462	200
F. H. Williams, Trustee.	465	200
F. H. Williams, Trustee.	506	200
F. H. Williams, Trustee.	559	200
F. H. Williams, Trustee.	407	100
F. H. Williams, Trustee.	439	100
F. H. Williams, Trustee.	440	100
F. H. Williams, Trustee.	441	100
F. H. Williams, Trustee.	442	100
F. H. Williams, Trustee.	443	100
F. H. Williams, Trustee.	449	100
F. H. Williams, Trustee.	450	100
F. H. Williams, Trustee.	451	100
F. H. Williams, Trustee.	452	100
F. H. Williams, Trustee.	453	100

F. H. Williams, Trustee.	464	100
F. H. Williams, Trustee.	536	100
F. H. Williams, Trustee.	537	100
F. H. Williams, Trustee.	538	100
F. H. Williams, Trustee.	539	100
F. H. Williams, Trustee.	540	100
F. H. Williams, Trustee.	541	100
F. H. Williams, Trustee.	542	100
F. H. Williams, Trustee.	54	75
F. H. Williams, Trustee.	502	75
F. H. Williams, Trustee.	454	75
F. H. Williams, Trustee.	465	75
F. H. Williams, Trustee.	500	50
F. H. Williams, Trustee.	543	50

C. F. BRAGG, Treasurer.

Bangor, Feb. 22, 1882.

OFFICE OF

Milton Mining & Milling Co.

No. 4 SEARS BUILDING.

Boston, March 2, 1882.

By vote of the Stockholders, at a special meeting held at Portland, Maine, March 1, 1882, the property and assets of the Company were transferred to the MILTON MINING COMPANY, a corporation chartered by special act of the Legislature of Maine, approved March 17, 1881. An equal number of shares of the new company will be issued, share for share, to the holders of the stock of the Milton Mining and Milling Company, on surrender of the old stock to the Treasurer, which must be done within thirty days from this date.

CHARLES H. LEWIS, President.

ASSESSMENT NOTICE.

Milton Mining Co.,

Location of Mine and Works,
West Sullivan, - Maine.

Notice is hereby given that at a meeting of the Board of Directors, held on the first day of March, 1882, an assessment of ten (10) cents per share was levied on the Capital Stock of the Corporation, payable immediately to the Treasurer of the Company, No. 4 Sears Building, Boston, Mass.

Any stock upon which the above assessment shall remain unpaid on the 21st day of March, 1882, will be delinquent, and, advertised for sale at public auction, and unless payment is made before, a sufficient number of shares of said stock will be sold to pay the delinquent assessment, together with the cost of advertising and expenses of sale.

By order of the Board of Directors,
GEO. E. HARRINGTON, Treasurer.
Office, 4 Sears Building, Boston, March 1, 1882.

N. P. DOE,

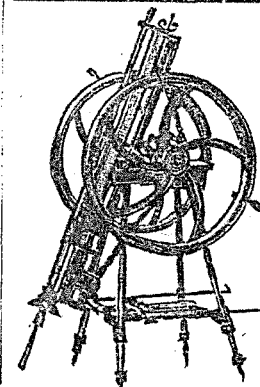
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Bangor, Me.

Sale of Delinquent Stock

TWIN LEAD MINING AND SMELTING CO.

Mines at Blue Hill, Me.—Principal Place
of Business, Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company, so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, 4 Main Street, Bangor, Me., on Monday, the third day of April, 1882, at 2 o'clock P. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is five (5) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued are as below indicated in their appropriate column.

No. of certificate.	Name.	No. of shares.
3.	John S. Jenness.	500
7.	M. B. Ricker.	100
18.	J. S. Jenness, trustee.	1000
19.	John S. Jenness, trustee.	1000
20.	John S. Jenness, trustee.	1000
21.	John S. Jenness, trustee.	1000
22.	John S. Jenness, trustee.	100
23.	John S. Jenness, trustee.	100
24.	John S. Jenness, trustee.	100
25.	John S. Jenness, trustee.	100
26.	John S. Jenness, trustee.	100
29.	G. W. Pickering, trustee.	1000
31.	G. W. Pickering, trustee.	1000
114.	Jacob Stern.	50
115.	Jacob Stern.	100
140.	W. J. Webb, trustee.	100
143.	W. F. Seavey, trustee.	100
144.	Jacob Stern.	100
146.	W. J. Webb, trustee.	100
170.	B. B. Thatcher.	200
204.	John R. Mason, Treas.	500
210.	Mason & Reynolds, trustees.	100
217.	C. E. Hill, trustee.	250
218.	C. E. Hill, trustee.	100
221.	S. S. Fisk.	100
225.	J. E. Parker, trustee.	100
243.	J. E. Parker, trustee.	100
254.	F. H. Williams, trustee.	100
255.	F. H. Williams, trustee.	25
262.	Jacob Stern.	100
302.	Jacob Stern.	100
363.	Jacob Stern.	100
365.	John R. Mason, Treas.	100
366.	John R. Mason, Treas.	100
390.	G. W. Pickering, trustee.	500
392.	G. W. Pickering, trustee.	500
416.	H. N. Pinkham, trustee.	500
417.	H. N. Pinkham, trustee.	500
418.	H. N. Pinkham, trustee.	500
419.	H. N. Pinkham, trustee.	100
420.	H. N. Pinkham, trustee.	100
421.	H. N. Pinkham, trustee.	100
720.	John R. Mason, Secretary, trustee for Twin Lead Copper Mining Company and stockholders.	4,120

JOHN R. MASON, Treasurer.

Bangor, March 9th, 1882.

THE Maine Mining Journal

WILL BE FOUND ON SALE

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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

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All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MARCH 10, 1882.

There is considerable feeling both for and against the railroad in this part of our town. We heard one of our citizens say the other night: "I left one town because of a railroad passing through it and if they succeed in this town I am prepared to pull up stakes and move again."—[Sullivan Bulletin.

The above serves to illustrate the spirit of progress which characterizes the "old settler" in Eastern Maine. The best thing he can do for himself and for society is to move on to the next world; there is no room for him in this.

Negotiations are now pending which will probably result in important changes in the management of the Mascot Mining Company. A party of gentlemen will visit the Mascot mines during the present week and if everything is satisfactory a large sum of money will probably be placed in the treasury and the management and offices of the company transferred to Bangor. If this is brought about, an excursion with low rate fares will be made from this city to the mines in Gorham, N. H., at an early day.

Sales of Maine mining shares at the Boston Mining Exchange for the week ending on Wednesday last aggregated 47,610 shares, as follows: 15,400 Milton, at steadily declining prices, closing at 8c; 1,560 Sullivan, declining from \$1.62 1-2 to \$1; 15,400 Twin Lead, which dropped to 8c and closed at 10c; 8,850 Deer Isle, which sold down to 14c; 2,600 Mammoth, closing at 9c; 300 Copper Prince at 52 and 53c; 2,400 Copperopolis at 4 and 5c; 500 Young Hecla at 20c; 500 Granger at 5c; 500 Edgemoggin at 5c. Sales of Maine shares at the Old Board were confined to 600 Douglass at 37 1-2 and 31 1-4c, and 600 Sullivan at 1 1-2, 1 1-8 and \$1, closing at the latter figure.

The Boston Brokers' Club held their usual monthly meeting and dinner at Parker's on Friday night last, Mr. M. L. Ross presiding. There was a fair attendance, and speech making was indulged in to a considerable extent, Messrs. Meehan, Paige, Curtis and Goff responding to toasts. Col. Meehan, during his remarks, urged that, if the Boston Min-

ing and Stock Exchange wished to regain the lost confidence of the public, it must be reconstructed. Col. Meehan is practically the founder of that institution, and, we feel sure, has never sanctioned the impolitic, not to say dishonest, course in which it has persisted, in the face of oft repeated warnings and which has already resulted so disastrously. There is a broad field and a useful one before this institution, but we agree that a reconstruction is necessary. Mr. Geo. D. Greely will preside at the next dinner.

A meeting of the citizens of Bangor for the purpose of discussing the Shore Line Railway project, was held at the Common Council room on Friday afternoon last. Quite a number of our prominent business men were in attendance. Hon. J. S. Wheelwright presiding, and the subscription paper prepared by the committee was presented and met with the approval of the meeting. Remarks were made by General Strickland, Hon. L. J. Morse, R. S. Morison, A. W. Paine and others, and the general sentiment of the meeting was enthusiastically in favor of the project, a number of gentlemen expressing the belief that the proposed sum (\$20,000) would readily be subscribed within thirty days. A committee was appointed to circulate the subscription paper, and Hon. Wm. B. Hayford, President of the Kenduskeag National Bank, George Stetson, President of the First National Bank and Charles V. Lord, President of the Veazie National Bank, were chosen as trustees of the fund. Nearly all the towns in Washington county along the proposed line have voted in favor of granting the small subsidy asked, and the prospect that the road will be built seems encouraging.

THE DOUGLASS.

The Blue Hill correspondent of the Press says the Douglass mine at that place closed Thursday last for three months and it is feared that this means indefinitely. The immediate cause of the shutdown is the refusal of Mr. Jennings to advance the necessary funds to pay current expenses.—[Portland Press.

The Press has never lost an opportunity to deal a blow at Maine mining, but owing to its distance from the active mining districts and consequent ignorance on the subject, its slurs and misrepresentations have fallen comparatively harmless. It seems that now, however, the Press has secured a correspondent in the Blue Hill district who may be relied upon to furnish that paper with precisely the class of information it desires.

In the first place there is no reason why Mr. Jennings or anyone else should advance funds to meet the expenses of running the Douglass mine. The money necessary to carry on the work is raised by assessments upon each share of the capital stock, and if, through some looseness of management, there are no funds on hand at the mine to meet current expenses, the management are fully justified in shutting down rather than assume liabilities to be met indefinitely.

In the second place the mine has not shut down. Work in the shaft has been temporarily suspended, under orders from Manager Thompson, but the smelting furnace is running as usual. The fact is that Mr. Thompson, when called to assume the management of the Douglass, occupied a responsible position and held large interests in Canada which he could not leave at short notice. He has been and is at present engaged in closing up his business affairs there, pre-

paratory to removing to the States and giving the mine his entire attention on or about April 1st. What may be his reasons for ordering this temporary suspension of mining work we are, of course, unable to conjecture; but he undoubtedly has some good reason and as he is daily expected at Blue Hill we hope to be able to give some definite information concerning the plans of the executive committee as soon as they are fully developed.

The aim of the management is to place the mine upon a paying basis as early as possible; and with the large quantity of ore on hand it is not unlikely that it may be considered advisable to expend the present assessment money in improving and increasing the smelting facilities rather than putting it underground. Meanwhile, we are assured that the mine is looking as well as ever, and the assessment now due is being paid in rapidly at the Treasurer's office in this city.

Personals.

MR. FRED NEAL, of Augusta, left on Monday last for the Black Hills, where he intends to engage in mining operations.

MR. E. C. HAMMER, of the Walworth Manufacturing Company, has been recognized by President Arthur as Consul for Denmark, at Boston.

MAJOR JOHN M. GOULD delivered on Monday evening last a very interesting lecture on "The Mountains of Maine," before the Portland Natural History Society.

JOSEPH E. SHEFFIELD, founder of the Sheffield Scientific School of Yale College, and a liberal benefactor of the College in other respects, died at New Haven, Feb. 17, in the seventy-ninth year of his age. He was one of the chief promoters of the New York and New Haven Railroad, and was the projector and for many years President of the New Haven and Northampton Railway Company. He is chiefly known for his liberal donations to Yale College and other public institutions of learning in New England and the West.

Piling Up the Coolness.

COMPLETION OF THE ICE HARVEST ON THE PENOBSCOT—
THE CUT LARGER THAN ANTICIPATED.

Since the publication in the MINING JOURNAL a few weeks since, of an article treating of the past history and present importance of the ice business on the Penobscot, the work of the season of 1881-2 has been practically finished.

The operations were much larger than anticipated, the operators having been greatly encouraged in the past fortnight at the prospect of good prices. The work of harvesting, it is true, was curtailed to a considerable extent by the great rain of the 2nd inst., which stopped operations completely for a day and a half, and hindered work more or less for some days, by flooding the fields, and creating a tremendous current in the Penobscot, which, on Saturday afternoon last, began to break up the fields, and the river was quickly deserted by the hundreds of men then engaged. Horses and tools were taken off precipitately, and all work stopped at 4:30 p. m. On Sunday, there was no movement of the ice visible, and several crews, among them Gould & Hastings, worked all day. On Monday, the impression that the ice would leave very soon was prevalent, and not much was done. That night, however, the weather had a cool turn, and confidence was again established. Since Tuesday sev-

eral operations have been carried on by parties who went into the business at the eleventh hour, and who are making great efforts to fill their houses. In the latter part of the ice cutting season, many new concerns were at work, in addition to those mentioned in this paper some weeks since.

The Brewer Ice Co. filled the old stacks at the railway yard, and have now succeeded in filling a stack at the Free Soil wharf. Both stacks contain about 10,000 tons in the aggregate. Walter Ross secured about 600 tons on the Bar Harbor wharf and A. H. Babcock about 3,500 tons. Rollins has a stack of 10,000 tons besides 6,000 tons of old ice in his house. F. C. Brackett cut in all, for city, private and shipping purposes, about 4,000 tons. Gould & Hastings secured up to last Wednesday about 3,000 tons; they are still at work. The Katahdin Ice Co. has 13,000 tons in stack and 7,000 tons in house. Chas. Dolan has a total of 11,000 tons. Cassidy, McCann and Conners are still at work and hope to get 8,000 tons. Pitman has a total of 25,000 tons, and the Arctic Co. about 33,000 tons. The Dirigo Co. has 14,000 tons, and the Penobscot River Co. about 17,000 tons. Smith & Atwood, Hampden, have about 2,000 tons and the Union Co. about 3,000 tons. Waterman, Engel & Co. have 3,000 tons of old ice, and are engaged in an attempt to get 3,000 tons of new. N. G. Higgins has 7,000 tons of fine ice. The total crop of new ice on the Penobscot will probably be about 160,000 tons, which, with the overstock of 65,000 tons will give 225,000 tons for shipment, or about 675 cargoes, average size. Not much can be said in regard to the market, which has not gone higher than \$1.50 as yet, for the time for sales is yet early. The price will probably open at a good figure for good ice, (and there is no other here) about April 1st. Numerous charters of large vessels to carry ice from Maine to the ports of the Middle and Southern States, are reported, at prices ranging from \$1 to \$1.50 a ton. We shall soon present a recapitulation of the harvest here, giving as nearly as possible the amount cut in different years.

Philosophy of Mineral Deposition.

BY PROF. W. FRANK STEWART.

[From the Boston Daily Advertiser.]

Since the time of Humboldt, Murchison and Lyell, the scientific knowledge of terrestrial phenomena has expanded amazingly. Through the comparatively recent discoveries of Mayer, Helmholtz, Grove and Faraday, we now know that all modes of natural energy are correlative and retroactive. In other words, it has been clearly demonstrated that a given unit of heat will generate a corresponding unit of electrical activity; and that, in turn, the electrical action will produce an equal and measurable amount of magnetic force. It has been further proved by Faraday, Tyndall, Henry and many others, that these modes of energy or force are retroactive, and that magnetism may be restored to electrical action, the resultant of the action being an equal and measurable unit of heat. Upon this grand discovery of the correlation and conservation of natural forces rests our present knowledge of electrolysis and of metalliferous aggregations in the earth's surface belt. Nature's methods of producing these metalliferous aggregations have been successfully and profitably imitated by practical chemists, as we see fairly demonstrated every day in the electro-plating and electrotyping establishments of Europe and America. In this seemingly simple process of precipitating metallic atoms from their chemical solutions into appreciable masses by galvanic action, we probe one of the deepest mysteries of nature and clearly ascertain how the rich bonanzas of the globe were constructed.

To simplify the processes of metallic precipitation from chemical solutions by electrolysis, as exemplified by the electrotypist, it is only necessary to state: *Firstly*—That all terrestrial substances may be reduced to the molecular condition by chemical solvents; and that, in the grand laboratory of nature,

molecular disintegration of substances is forever going forward. *Secondly*—That all terrestrial substances—whether organic or inorganic—are known to possess, in a greater or less degree, the quality of magnetism, or the power of attraction and repulsion. It is further known that the presence of heat invariably augments or diminishes the attracting and repellant action in exact degree with the calorific intensity. *Thirdly*—After many years of patient and laborious experimentation, chemists have ascertained that every molecule of matter—whether magneto-positive or magneto-negative—has its “natural affinity,” or the tendency to unite with other molecular compounds containing wholly different elements from itself, and by this mysterious law of molecular selection the miracle of crystallization is carried forward in the solid crust of the globe, and in the blooming splendor of the fields. In every phase of molecular precipitation and combination, we must not lose sight of the fact that heat and its resultant electro-magnetism are the chief factors in the wonderful processes. *Cold* is death and inanition. *Heat* is life and activity. In the total absence of this potent principle of energy, atomic combination and molecular aggregation would be impossible, and the earth would be “without form and void.”

It is now maintained by many learned physicists in Europe and America that all metalliferous deposits, whether in veins, beds, or otherwise, were originally precipitated from hot aqueous and chemical solutions, in precisely the same manner that electro-plating is conducted in the shops to-day. If it be conceded that the correlated energies of heat, electricity and magnetism are the active agents in the work of precipitation and combination, then we shall not only be able to form a rational conclusion as to the reason why metalliferous deposits are confined to distinctive zones and sections of the earth's surface, but we shall also be enabled to determine, with approximate accuracy, the precise portions of the planet where such metalliferous zones and sections ought and usually do exist. All the great mountain chains on the globe owe their origin to an inconceivable intensity of *heat-energy*—the grand factor in metallic precipitation—and, in positive confirmation of the philosophy above submitted, it has been fairly proved by ages of exploration, that rich deposits of the precious metals do not exist except in regions which have been profoundly disturbed by ancient volcanic action. The reader need scarcely be reminded of the wonderful mineral fertility of the Andes, of the Sierra Madre, of the Rocky Mountains, of the Urals, and of the Sierra Nevada. Nor need he be told of the metallic wealth of the intercontinental regions of this continent, all of which have been subjected to the wild fury of eruptive energy. As stated before, those massive elevations were all the result of inconceivable heat-energy. They all came blazing through the waters of the primitive ocean, and, by their intense heat, converted the mighty deep into a vast electro-chemical laboratory, from which were evolved the wonderful treasure deposits which we now find upon their borders and in their flanking foothills.

If it be admitted that terrestrial heat and electro-magnetism were the active agents of metallic aggregations in the Andes, or in other great mountain chains of the globe, can there be any rational reason why the grand old Appalachian chain should be an exception to the rule. That this venerable elevation owes its existence to mighty eruptive forces cannot be questioned. That its flanking foothills and neighboring plains have been subjected to the action of intensely heated seas is everywhere apparent. In very brief, the Appalachian mountains possess every philosophical requirement for fertile metalliferous deposits, and I here venture the prediction that the time is not remote in the future when the metallic products of the vast region flanking this chain, and extending from Labrador to Georgia, will astonish mankind with their colossal magnitude and intrinsic value. Already we know that the mountains and foothills of Georgia and Carolina are rich in the useful and precious metals. We further know that Canada, Newfoundland

and the Dominion provinces—all flanking the Appalachian system—are literally striated by innumerable deposits of gold, silver, copper, nickel, zinc, lead and many other valuable metals and minerals. Can there be any valid reason why New England should form a hiatus in this wide field of metallic aggregations? In answer to this it may be stated that, in a crude, imperfect way, the people of Maine and New Hampshire have during the past three years performed sufficient exploitation to clearly prove that those States abound in permanent and massive deposits of the precious and useful metals. In extenuation of the imperfect and unsatisfactory methods hitherto performed upon most of the mineral deposits of New England it is only necessary to state that most of the operators were either wholly ignorant of the business of mining, or lacked sufficient capital to fully develop their respective properties. Notwithstanding these clogs and hindrances, much good work has been accomplished—sufficient, at least, to indicate the future importance and prospective value of mining interests in that part of the country. For the encouragement of New England miners, the writer may be permitted to state that during the past third of a century he has visited many of the most important mining localities in North America, and after a careful study of the geology, lithology and mineralization of many of the mineral bearing districts of Maine and New Hampshire, he can unhesitatingly affirm that better defined, or more thoroughly reliable metalliferous lodes do not exist than those of eastern New England.

A Midwinter Ramble.

WHAT OUR REPORTER SAW AMONG THE MOUNTAINS—BANGOR AND KATAHDIN IRON WORKS RAILWAY—KATAHDIN IRON WORKS—SILVER LAKE HOTEL—MERRILL'S SLATE QUARRY—PALMER'S LUMBERING OPERATIONS AT THE “GULF”—LIFE IN A LOGGING CAMP.

[CONCLUDED FROM LAST WEEK.]

The great slate belt which traverses Piscataquis county east and west is destined to become one of the most important sources of Maine's future wealth. Although it has been but partially explored and is, consequently, of unknown extent, a great number of veins favorably situated for working have been discovered, while the quality of the material compares favorably, and in fact is very nearly identical, with the best Welsh slates, long considered the finest in the world. Quarries have been opened and operated with varying success, according to the capital and means employed, in the towns of Brownville, Williamsburg, Barnard, Monson and Blanchard, and their product has for years past formed a not inconsiderable item in Maine's export trade. In a future article we shall endeavor to give our readers a brief history of the slate enterprises of Piscataquis, together with a statement of the present extent and remarks upon the future prospects of the industry; at present we will confine our attention to Brownville.

The first quarry was opened in Brownville in 1843 by the Bangor and Piscataquis Slate Company, and for a number of years produced from 8,000 to 12,000 squares of slate annually, which sold in market at from \$35,000 to \$40,000. When in full operation it employed sixty men and paid out in wages \$25,000 a year. Through no fault of the quarry, but from various causes to which we shall refer hereafter, it has been for some time lying idle and was recently sold at auction in this city. What its future may be is uncertain; the property is a valuable one, but a large outlay will be required to put it in suitable shape for profitable working. Several slate companies are at present operating in Brownville, one of which (The Williams Slate Company—E. H. Bullard, President and Business Manager) is a recent organization, having only commenced work last fall, and is making preparations for the extensive development of what is undoubtedly a valuable property; but the only quarry in the town now enjoying a full tide of prosperity and producing slates in large quantities is

MERRILL'S SLATE QUARRY.

The quarry was opened in 1846 by Mr. Adams H. Merrill. It is situated about a mile from the village of Brownville, upon a commanding elevation which, while furnishing excellent dumpage facilities, affords a grand outlook upon the country to the north and east and one of the finest views of Katahdin we have ever seen. In connection with the quarry Mr. Merrill owns

1,500 acres of land, comprising many other slate veins equally as promising as the one which has been so extensively developed.

As one approaches the quarry from the village, evidences of an immense amount of excavation work having been done somewhere in the vicinity are seen in the enormous waste dumps which rise on either side the driveway. Arriving at the top of the dump a busy scene meets the view. Substantial buildings, comprising office, machine shops, enginehouses, cutting and storage sheds, etc., etc., appear on every hand, while on the innumerable car tracks running apparently in every conceivable direction loaded and empty cars are being drawn back and forth by horses and mules both with and without drivers. Over a mile of car tracks are in operation about the premises, while some idea of the extent of ground covered with buildings may be had when it is stated that upwards of 30,000 squares of roofing slates were required in their construction. (A "square" of slate is a sufficient quantity to cover a superficial area ten feet square, or 100 square feet.)

The "pit," as it is called, is an enormous excavation covering an extent of several acres and about 120 feet in depth. A car track is laid at the bottom of the pit, and the slate and waste material is loaded on cars and taken to the surface by four large steam hoisting machines, or derricks, operated by means of winding engines and wire rope. Here the cars are deposited upon a track and run down into the cutting sheds, where the slates are removed and the refuse hauled out onto the dumps beyond. The large sheets of slate, after coming from the pit, are first broken by sledges into proper sizes, then split by means of wedges to the required thickness, after which the edges are cut and trimmed by machines operated either by steam or foot power. Eight of these steam cutters are in operation, besides several operated by foot power. Although this is a season of the year when comparatively little is doing at the slate quarries, owing to the difficulty of working the slates during their alternate freezing and thawing, eighty-five men are at present employed by this establishment; this number will be largely increased during the summer season. Upwards of 12,000 squares of slates were shipped during 1881, all of which was hauled to Milo station, seven miles distant, thence brought by rail to Bangor and shipped either by land or water to Boston, where most of it finds a market; a considerable quantity, however, is sent to various points in the West. The quarry is now opened in first class shape, is fully supplied with all the most modern machinery and appliances for carrying on the work expeditiously and economically, and Mr. Merrill estimates that its production during the coming season will not fall short of 18,000 squares. As has been stated, a side track of the B. & K. I. W. Railway will be immediately extended to the quarry, and the saving in expense of shipment will hereafter add largely to the profits of the enterprise.

Mr. Merrill is also engaged in reopening the old Hughes quarry, situated a short distance from the Merrill quarry. Twenty-five men are at present employed in uncovering the vein and getting it into suitable condition for working. It is expected to become an important producer of slates during the present season.

J. W. PALMER AND SONS' LUMBERING OPERATIONS.

The West Branch of Pleasant River takes its rise among the mountains and hills on what was formerly the Bowdoin College Grant, a large tract of land lying between Katahdin Iron Works and Moosehead Lake and now owned by Bangor capitalists. Being fed by large ponds and numerous streams and rivulets from the mountain sides, the stream rapidly acquires respectable proportions and, some ten miles above the Iron Works, passes into a narrow, rocky gorge, or canon, with perpendicular walls rising to a height of a hundred feet, through which it tosses and tumbles over its rocky bed for three miles, before emerging into the valley below. Within this three miles the river falls fully a thousand feet, and the scene is one of wild, incomparable grandeur. This romantic spot, probably the most picturesque within the borders of Maine, is known as "The Gulf," and is destined ere long to become a noted summer resort. It is yet in the unbroken wilderness, the nearest settlement being the Iron Works, some ten miles distant.

Around the headwaters of this stream exists a fine tract of timber—stately pines, spruces and hemlocks—which never, until the time of which we speak, had resounded with the blows of the lumberman's axe. It has been many times viewed with longing eyes by lumber prospectors, and has remained standing to the present time only because it was deemed inaccessible. The bed of the river in its progress through the Gulf was so filled and choked with ledges and boulders that to drive logs through it was an utter impossibility and not to be thought of for a moment; while the nature of the surrounding country was such that a logging road to the valley below could only be built at an enormous expense, if at all. Three years ago, however, Mr. J. W. Palmer, one of our prominent citizens and a

pioneer in lumbering on Penobscot waters, having been engaged in the business since 1844, after thoroughly surveying the locality, concluded that the timber was too valuable to be longer neglected, and immediately took measures to provide means for getting the logs out. Having purchased of the owners a permit for a term of five years, he immediately commenced operations with a large force of men, building "tote" roads and blasting out ledges and building piers in the stream, to put it in suitable condition for driving. During the summer of 1879, while the water in the stream was at a low stage, nearly \$10,000 were expended in blasting and removing the obstructions at the Gulf, over a ton and a half of rendrock being used for the purpose. To accomplish this work it was necessary to lower and raise the workmen by means of ropes from the cliffs above. Operations have been carried on at different points on the river during the succeeding seasons until, at the present time, upwards of \$22,000 have been expended in improving the stream and building roads. The result has been in every way satisfactory, a large amount of the finest timber having been cut and driven to Bangor last year, while the cut the present season will probably reach the vicinity of eight million feet. Of this amount, about three and a half million are cut on White Brook, and hauled to the landing on the river at a point some three miles above the Iron Works; the remainder will come down through the Gulf.

The firm of J. W. Palmer & Sons, who are conducting these extensive operations, is composed of Mr. Palmer and three sons—Walter E., Charles P. and George A. George is conducting affairs at the head of the Gulf, Charles has charge of the operations on White Brook, Walter is stationed in Bangor and attends to the business at this end of the line, while Mr. Palmer himself has general supervision of the whole, usually visiting the camps every week and spending the Sabbaths at his home in this city. The firm employ 160 men and 80 horses, distributed among four camps, one on White Brook and the others above the Gulf. The logs are cut and "yarded" high up on the mountain sides, and hauled to the landings by four-horse teams. At many places along the roads, recourse is had to "snubbing," or letting the teams down the steep pitches by means of a rope wound several times around the trunk of a tree. Operations were greatly retarded during the early part of the winter on account of the light snowfall; but the hauling has been good since the first of January, and as there is still eighteen inches of snow in the woods with a probability of more to come it is not unlikely that the work may go on briskly until towards the close of the present month.

The camps built by Messrs. Palmer & Sons for their men are worthy of more than a passing notice. They are substantial structures, built compactly of logs, the crevices chinked with moss or some other material and generally sheathed on the inside, and are as warm and comfortable as an ordinary dwelling house. They are divided into two compartments, the dining and cook-room and the sleeping apartment along the sides of which the bunks are ranged. Two stoves, besides the cook-stove, in which rousing wood fires are kept burning when the men are in camp, keep the apartments thoroughly warmed in the coldest weather. The *attaches* of the camp are the cook, the "cook-ee" or cook's assistant and the hostler. The fare is not "hard tack and raw salt pork with molasses," as many people imagine, but is such as even an epicure might envy—baked beans; roast fresh beef and pork; corned beef; boiled salt cod; salt mackerel, baked and broiled; savory soups and stews; light, creamy hot biscuit; luscious doughnuts; molasses gingerbread, apple pies, etc., etc. This, occasionally varied with trout, deer, caribou and other game, is a fare fit for a king. The cooking is of the best (Mr. Palmer will not tolerate a poor cook) and the cook-room and utensils are all kept in the neatest "apple-pie" order. The beverages of the camp are tea (sweetened with molasses) and pure spring water such as is only to be found among the mountains. The men are a hearty and good-natured set and appear to enjoy their winter life, as well they may. The "hovel," or stable, is also kept neat and comfortable and the horses fare equally as well as the men, as is evidenced by their condition, notwithstanding the hard work they perform.

The supplies for the lumber camps are hauled in from the Iron Works by "toters," who work on contract and keep the roads connecting with the outside world open during the deep snows of winter, generally making a trip each way daily. Immense quantities of provisions, hay, grain, etc., are required, besides many articles of clothing and other things too numerous to mention, nearly all of which are purchased in Bangor. Included in the supplies already sent in this winter were 270 bbls. flour, 135 bbls. pork, 300 bu. beans, 2,000 gals. molasses, 300 bu. potatoes, upwards of 3 tons fresh beef, and salt fish and numerous other articles in proportion; also 110 tons of hay and over 5,500 bushels corn and oats. It will be seen that providing for the wants of this colony in the wilderness is a matter of considerable magnitude and involves the expenditure of

large sums of money. But we are glad to be able to state that the undertaking is a profitable one and that the Messrs. Palmer are meeting with the success they so richly deserve. Their enterprise furnishes remunerative employment to a large number of men during the entire season, adds largely to the business of merchants and traders in this city, and brings to Bangor a large quantity of the finest lumber cut on our waters, to be sawed and manufactured for home use and shipment abroad.

LODES, LEADS AND VEINS.

RENFREW.—The Renfrew Consolidated Gold Mining Company, of Renfrew, Nova Scotia, will pay its third monthly dividend, of one per cent. upon its capital stock, on the 20th of the present month. This company was organized at Portland, Oct. 30, 1881, was incorporated under Maine laws, and is, so far as we are aware, the first Maine mining company to pay dividends from the product of its mine.

MASCOT.—The Mascot continues its shipments, three carloads (34 tons) of pure argentiferous galena having arrived at East Boston during last week. Forty miners are employed, principally in development work.

MILTON.—The stockholders of the Milton Mining and Milling Company held a meeting at Portland on Wednesday, March 1, and reorganized under the special charter granted by the Maine Legislature in March last. The new company will be known as the Milton Mining Company, and has a capital stock of \$1,000,000 divided into 200,000 shares, par value \$5 each. The following officers were chosen: President, Wm. D. Lewis; Treasurer, Geo. E. Harrington; Secretary, Horace T. Starr; Directors, W. D. Lewis, Geo. E. Harrington, C. F. McKenzie, William J. Mann, Geo. West, Henry R. Gardner and Geo. F. Ropes. 170,000 shares were represented, and the meeting was harmonious and satisfactory. At a meeting of the Directors of the new company it was voted to levy an assessment of ten cents per share on the capital stock, payable immediately, and delinquent March 31st. The Bulletin reports matters at the mine moving along as usual. The vein continues to look well in the bottom of the winze, and still improves as depth is attained.

GOULDSBORO.—Work is now well under way on the Gouldsboro Silver Mine, and the natives are complaining that the six o'clock (A. M.) whistle disturbs their morning devotions. Mr. J. H. Woodford, of Boston, is manager.

DEER ISLE.—The Deer Isle Silver Mine continues to be worked vigorously at the 165 ft. level. Sixteen men are employed and several hundred tons of good ore await shipment.

EDGEMOGGIN.—This mine is located on the southwest shore of Byard's Point, a short distance west of the village and post-office in Sedgwick known as Sargentville. A shaft has been sunk on an ore streak of galena and zinc, which lies on the western wall of the vein, to a perpendicular depth of 128 feet. The ore body has widened in sinking from a few inches at the surface to about three and one-half feet at the present depth and the mine is considered a very promising one. Work has been discontinued until a pump can be obtained which is requisite for the present depth, when active operations will be vigorously renewed. The company are out of debt and have funds in their treasury.

TAPLEY.—We learn that the shaft on the Tapley, which was expected to cut the vein about 100 feet from the surface, has unexpectedly encountered a fine body of ore at the present depth of about fifty feet. A rich vein of water was also struck almost simultaneously, however, necessitating a temporary suspension of work. The contractor has gone to Portland to procure a suitable pump.

YOUNG HECLE.—The annual meeting of the Young Hecla Mining and Smelting Company, which was to have occurred yesterday, will be held to-morrow (Saturday) at 3 P. M. at the company's office in this city.

British Provinces.

It is announced that a purchase will soon be made of a large class of steam vessels for carrying coal from Cape Breton to Montreal.

The Oxford Gold Mining Company, of New York City, have purchased the John Anderson property in Nova Scotia for \$100,000.

Another large coal seam has been found on the North Saskatchewan. This river heads in the Rocky Mountains and flows into Lake Winnipeg.

The Halifax New Era states that a New York mining expert

is now inspecting the Nova Scotia gold mines and will report upon them to capitalists who are considering the matter of investing in them.

The New York and Ontario Furnace Company seek incorporation for the purpose of mining and shipping iron ore and manufacturing iron in various forms. Their capital is \$1,250,000 in shares of \$100 each. This is practically the transfer of an immense New Jersey iron manufactory to Canada.

Mr. E. F. DeCamp, of the New York firm of Adams & DeCamp, has recently concluded the purchase of thirty-five claims of the John H. Anderson property, near Lake Catcha, Chezzetcook, N. S. The lode on this property is said to be one of the most promising in the Province, and it is understood that the new owners will at once proceed to develop it vigorously.

DORCHESTER.—We learn that the parties recently engaged in working the copper mine at Dorchester, N. B., have not permanently abandoned their enterprise. While not entirely satisfied with their purchase, they intend to organize their company and expend at least \$25,000 more in developing the property. Then if it proves to be a mine, it will be worked; if not, abandoned. Work will not probably be resumed until the season opens.

TANGIER.—Good work is going on at the Tangier gold mines, and there are good prospects of success. The number of men employed in these mines is about 175. The Moseland mines, (formerly known as the old Tangier mines) have not been worked for some time, but operations are to commence at once. It was here where gold was first discovered in the Province. The Salmon River mines, considered by all to be the wealthiest in the Province are being largely worked.—[Eastern Chronicle.

COXHEATH.—Timbering has been completed in shaft No. 1 of the Coxheath Copper Mine, Cape Breton. They have commenced sinking in good ore, and having put on three 8-hour shifts, the next news from there will be very gratifying to those interested. Shaft No. 2 is down 35 feet, ore face increasing largely and indications very favorable. As they have everything needed on hand, work will be pushed vigorously. There is no doubt but this will prove to be a very valuable property.—[New Era.

The Asbestos Mining and Manufacturing Company of Canada, composed principally of Boston capitalists, has recently been organized for the manufacture of asbestos goods in Canada. The capital stock (\$100,000) is all subscribed, and the directors will proceed at once to erect their factory in the vicinity of Quebec. The board consists of Wm. V. Hutchings, Wm. Roberts and Amos Tarleton, of Boston, and the following gentlemen in Quebec: Jean Blanchet, Q. C., M. P., James King, Hon. Geo. Irvine and C. W. Carrier; Mr. Robert Thomas, of Boston, is general superintendent.

The annual report of the Mines' Department for Nova Scotia shows the total coal sales of the Province for 1881 to have been 1,035,014 tons, against 954,650 tons in 1880, being an increase of 80,355 tons. Home sales were 382,343 tons against 322,913 tons in 1880, an increase of 59,430 tons. There has been an increase of 55,246 tons in amount of sales to New Brunswick and Quebec, a decrease of 7,452 tons to Newfoundland, and a decrease of 9,695 tons exported to the United States. The total yield of gold for the year was 19,766 ounces, against 13,234 ounces in 1880. There was unusual activity in some districts, which was more than offset by the falling off in others.

It is said that this year a total delivery of 275,000 tons of coal will be required in Montreal. The representative of one extensive coal mining interest in Cape Breton has contracted with the Montreal Gas Company for the supply of some 60,000 tons of gas coal. The Kingston Locomotive Works are at present consuming at the rate of 30 tons of Nova Scotia coal per week, which is laid down in Kingston at 75c. per ton less than Cleveland coal. When Nova Scotia coal can be sold to advantage in such distant points as Kingston, it must be apparent without further demonstration that Maritime manufacturers have an immense advantage in the matter of their fuel supply.—[Halifax New Era.

The mineral wealth of Canada is coming prominently before the general public, more especially in England and France, from which countries there are many inquiries for mineral properties. An unlimited amount of capital is awaiting sound investment in Canadian securities by French capitalists. The success of the Michipicoten Native Copper Co's Mine has awakened much enthusiasm among the English investors, and stock in that company is at a premium. There are in the Thunder Bay District several valuable mines owned by English capitalists, and it is not improbable that the present movements in this district will cause a reaction in the minds of these owners so long dormant and inert.—[North Shore Miner.

Croppings.

[Compiled, Condensed and Condensed from our Exchanges.]

Seats in the American Mining Stock Exchange are offered for \$100.

The newly discovered soapstone mine at Chester, Vt., is to be worked, having been leased for forty years.

The Ely (Vt.) Copper Mine employs from 600 to 800 hands, and has several years' supply of ore in sight.

The Robinson Con. Mining Company, at their meeting on Saturday last, made an entire change in their Board of Directors.

The Brunswick Antimony Company have petitioned to the New Brunswick Legislature for permission to further increase their capital stock.

The "Colorado Institute of Engineers" has been organized by the civil, mining and mechanical engineers, chemists and metallurgists of Leadville.

It is stated that two new companies are about to commence operations on the Mascot (N. H.) lode. The New Hampshire Development Company is also being organized.

The North Shore Miner justly complains of the course pursued by the alleged newspapers of the Portage Lake region, who, it says, take a fiendish delight in decrying everything on the North Shore of Lake Superior.

Gold mining in the colony of Victoria, Australia, is enjoying an increased prosperity. The number of miners employed is 38,700; area worked upon, 2,240 sq. miles; amount of gold obtained during 1881, 208,171 ozs. The Ballarat and Sandhurst districts are improving. Some districts are much injured by the want of water.

The Standard Coal and Iron Company, with a capital of \$25,000,000, has been organized in Boston by James G. Blaine and Eugene Hale, of Maine. Oliver Ames, of Massachusetts, and Governor Foster and other capitalists of Ohio. It is chiefly a consolidation of coal and iron companies in the Hocking Valley of Ohio, and represents 30,000 acres of mineral lands.

The product of the iron blast furnaces in the United States for the past year reached the hitherto unequalled figures of 5,000,000 tons. Prices during the year were fair and well maintained. The iron masters had less stock on hand at the close of the year than at the beginning, and orders are so numerous that the outlook for the present year points to a continuance of the prosperous condition of 1881.

Mining machinery to the value of \$1,700,000 was erected in Colorado last year, the State now having a stamping capacity of 2,500 tons and a smelting capacity of 2,000 tons of ore daily. It is probable that there will be a large increase in the value of the machinery that will be put in during the present year, owing to developments in new districts, and the increased depth now being reached in the older mines.

The Eureka (Nev.) Leader attacks the system of puffery that has characterized the Eureka Tunnel, and thinks that, while that property may be a good mine, it and Eureka District have been injured by the exaggerated reports of developments in the mine. The Leader says that good management, a clear title and dividends may bring the property out all right, but that nothing of benefit can be accomplished by wind.

The Syndicate of capitalists who recently purchased the iron mines at Franconia, N. H., known as the New Hampshire Iron Company's property, held a meeting last week at Concord and organized into a company, choosing the following list of officers: President, Sylvester Marsh, of Concord; Treasurer, L. D. Stevens; Secretary, Geo. D. Eldridge; Directors, Dr. E. Spaulding, of Nashua, Sylvester Marsh and T. H. Ford, of Concord, Benj. J. Cole, of Lake Village, C. M. Ransom, of Boston, Hon. E. B. Parker and Chas. H. Greenleaf, of Franconia. The company is to be known hereafter as the Franconia Iron Company of New Hampshire. Messrs Ransom, Eldridge & Straine, of Boston, are financial agents.

The Engineer Mining and Development Company, of Portland, held their first annual meeting in that city, on Saturday last, and elected the following officers: President, Franklin J. Rollins; Vice-President, F. C. Payson; Treasurer, Chas. J. Chapman; Directors, F. J. Rollins, Thos. J. Little, W. L. Bradley, F. C. Payson, C. J. Chapman, E. D. Eastman, Charles H. True and F. G. Patterson; General Manager, F. G. Patterson. The Company do not intend to conduct mining operations upon a large scale, but propose simply to invest in property which they improve and sell; to purchase mining prospects in Colorado, develop them sufficiently to demonstrate their prospective

value, and then to secure government titles to the properties and place them in the hands of capitalists at a fair margin of profit.

There is constantly increasing evidence that Albuquerque (N. M.) is surrounded by one of the greatest, if not the greatest, copper belts in the world. In the Sandia mountains on the south and east, the Nacimiento copper mines on the north and in the various ranges on the west, almost pure copper is being found, and new discoveries are being made almost daily. When the Indians, whose only means of reduction are their fire-places, can produce one thousand pounds of pure copper per month, of which fact we made mention last month, and which they are doing, there must be a rich deposit of ore, and where there is one there is bound to be more. The enterprising citizens of Albuquerque, realizing the above facts, and the importance of taking early advantage of them, will, at an early day, erect a large smelter for the reduction of these ores, and a company is about to be organized for this purpose.—[New Mexico Miner and Manufacturer.

EASTERN INDUSTRIES.

—The production of canned corn in Maine last year was valued at \$1,000,000.

—The total value of exports from the port of Portland during the week ending on Saturday last was \$423,319.25.

—Post Mills, Vermont, has a fishing rod factory which employs forty hands and turns out 850,000 worth of rods a year.

—L. F. Brooks, of Lebanon, N. H., has turned 30,000 mop handles this winter, to be used in the manufacture of his patent mops.

—There are five shoe factories at Freeport, all of which are doing a good business. The largest one employs about seventy-five hands.

—The Peaks Island Improvement Society are to set out 300 shade trees this spring, and they also talk of building a horse railroad around the island.

—The Hebron Pond Slate Company, of Monson, have stored twenty-five carloads of slates on the old packet wharf, in this city, in readiness for spring shipment.

—W. G. Sargent & Son, of Sargentville, will build this season a vessel of 500 tons to be commanded by Capt. W. D. Gove. Later in the season they will build one of 75 tons.

—Auburn has a new manufacturing enterprise—a pasteboard box manufactory, run by Mr. Mark Morse, on Park Hill. Mr. Morse employs six hands and makes 1200 boxes per day.

—The Lexington Mills, at Laconia, N. H., which have for some time been idle, will be started up in a few weeks by Philadelphia parties, for the manufacture of worsted goods.

—The new shoe factory at South Paris is completed, and Messrs. W. A. Frothingham & Co. are putting in machinery and will soon commence the manufacture of men's boots and shoes.

—Messrs. Burnham & Morrill will erect a corn canning factory at Norridgewock this spring. They have engaged 350 acres of corn the coming season, and the manufacture of cans was commenced last week.

—Mr. F. A. Wade, of Leeds, sends us some samples of tripoli, of fine quality, from his property in Vienna, Kennebec county. It is a useful and valuable article and has considerable commercial value.

—Geo. I. Wescott, a wholesale and retail dealer in groceries on Broad Street, this city, reports that he has shipped the past season 20,000 dozens of eggs which he has received from his country customers in lieu of cash.

—Mr. C. J. Hall has recently built and put in operation a granite polisher at his stone yard in Belfast. He is continually receiving large orders for cemetery work, and has just shipped eight tons of his famous red granite, in the rough, to Michigan.

—Shipments from the Auburn shoe factories for the week ending Wednesday, March 1, were 1976 cases; weight of leather received, 96,245 lbs. In the corresponding week of 1881, there were shipped 1851 cases, and 78,692 pounds of leather were received.

EGG-PRODUCTION.—Moses Friend, of Sedgewick, says that his own experience of many years has shown him that 150 hens may be kept in one flock at a net profit of \$150 per year, or a clear profit of one dollar on each hen. He feeds with corn, fish and clams.

—A number of Portland and Boston gentlemen, including the Treasurer of the Portland Water Works, are about to organize into a company for the purpose of supplying Biddeford, Saco and Old Orchard with water taken from the Saco River above Salmon Falls.

—Mathew Bros., of Belfast, have received an order for a lot of doors, to be sent to Turkey. The order comes through Boston parties who write to have them securely packed, as they are to be sent into the interior of the country on the backs of camels and mules.

—C. S. McFarland, at his evaporating manufactory at Montville, has purchased 10,000 bushels of apples this season, paying an average of 35 cents per bushel. He has packed for shipment 1,300 bbls., made 450 cases (50 lbs. in a case) of evaporated apples and 2,500 gals. of cider.

—The best catch ever reported in the haddock fishery was recently made by schooner "Martha C." of Gloucester, which arrived at Boston from Georges, after 10 days' absence, with 93,000 lbs. of haddock, the result of two and one-half days' fishing. The fish sold for \$1,943.

—Messrs. G. W. Merrill & Co., of this city, have taken the contract to furnish the new Rodick House, Bar Harbor, throughout. The hotel contains over four hundred rooms, and the name of the firm is a sufficient guarantee that every department will be furnished in first class style.

—The property of the Dirigo Slate Company, of Monson, was sold at auction in Portland on Saturday last for \$2,100. Mr. E. L. O. Adams was the purchaser, acting as agent for a new company about to be organized in that city for the purpose of operating the quarry, which is a valuable one.

—There have been delivered at the extract works in Houlton, since Jan. 1st, 5500 cords of hemlock bark, hauled by the farmers within a radius of twenty miles. The average price paid was \$4.50 per cord, amounting to \$24,750. There will probably be about fifteen hundred cords more hauled before the sledging breaks up.

—Mr. Geo. Ellingwood, an experienced oyster planter, proposes to plant several beds at Oak Bay, near Calais. He thinks the water and ground at the point well adapted to the growth and propagation of oysters. The oysters which he proposes he plant are the Sheldiac, as he has fears that the Virginia oysters may not thrive so far north.

—At a meeting of the Portland Board of Trade, held on Saturday last, it was voted to reduce the admission fee for new members to \$3, so as to increase its membership more rapidly and thereby, if possible, secure a fuller attendance at the meetings. The matter of steamboat freights by steamers running east from Portland was discussed at some length.

—The Aroostook Pioneer says:—"During the present season, up to last Friday morning, there had been shipped from the Houlton station, 342 carloads of potatoes, being about 120,000 bushels. Although our last potato crop was far below the average yield, the surplus of Houlton and adjacent towns will bring to the farmers one hundred thousand dollars."

—The Penobscot Lumbering Association held their annual meeting in this city on Tuesday and re-elected the old board of officers. During the afternoon the rafting of logs for the ensuing year was let to Daniel Lunt for 39 5-8 cents per thousand feet. During 1881, there were rafted in the Penobscot 160,000,000 feet of logs, a larger amount than for many years.

PROLIFIC CLAM BEDS.—The bar which at low water connects Deer Isle with Little Deer Isle is said to afford more money value yearly than any similar area of upland in the State. The yield of clams amounts to several thousand dollars worth annually and there is no apparent diminution of the quantity. W. G. Sargent & Son, of Sargentville, put up over 1000 barrels of shucked clams last season, mostly dug from this bar.

—The Portland Electric Light Company have received an additional dynamo and will at once put up another circuit of lights. The Falmouth House will be lighted, several more lights put in the Preble House, and quite a number of stores will have it put in. We learn that the matter of lighting the Press and Argus newspaper offices, also the Post office, is being talked of, and in case such arrangements are made an all-night circuit will be put up. —[Sunday Times.

—The ship yards of Yarmouth are presenting a lively appearance this winter. Three schooners and two barks are to be built the coming season. Messrs. Hutchins & Stubbs have the frames up and ceiled for a three masted schooner of about 550 tons for the Davis Brothers, of Knightville; Capt. Horace Davis will command her. They will also build a three masted

schooner for Portland and Dearing parties, of 250 tons, to cost about \$1600, to be commanded by Capt. Crockett of schooner T. Benedict. Operations have already commenced on a bark of about 450 tons to be off next summer. —[Portland Globe.

—Green's Landing, Deer Isle, is a busy little place. Nine granite quarries are in operation, employing during the summer season about 120 men. There are two canning factories which, in the season, can lobsters, mackerel, cod, haddock, eels and clams, employing about 200 men, women and children, paying out for wages, fish, etc., upwards of \$50,000 per year. An immense quantity of fresh lobsters are also barreled and shipped to Boston. It is also one of the finest places on the coast for a summer resort, having splendid views, good drives, boating and fishing. A good hotel is needed, but there is talk of building one during the coming season.

—Moses Friend, of Sedgwick, informs us that during the last ten years he has shipped 1290 bbls. of flounders, most of which have been sent to the Fulton fish market, New York. They are taken with spears and are considered among the nicest fish for the fry pan that we have in our waters. Several others living on the shores of Edgemoggin Reach do quite a business in the same line during the winter season. Scallops, a species of shell fish found lying on the bottom of the bays below low water mark, are becoming quite plenty near the shores in Eastern Maine. Their conditions of life are very similar to the oyster. For soups, and in other modes of preparation for the table, they are highly esteemed.

—Messrs. Irish & Marshall are doing quite a business at Sumner, getting out cord and pulp wood for the Forest Paper Co. at Yarmouth. They propose to ship from Hartford 2,300 cords. From Swift River they will drive down to Canton about 1,200 cords, and they intend to drive from West Sumner to Buckfield 2,000 cords. Probably 500 cords will be sent from East Sumner station, making an aggregate of 6,000 cords. This enterprise gives employment to a large crew of men, and also affords no small traffic to some merchants and farmers. As their wood must all be shipped over the Rumford Falls & Buckfield Railroad, it will furnish quite a revenue for that enterprising and reliable road, which is already doing a good business, with certain indications of an increase.

—The extension of the Bangor & Piscataquis Railroad to Moosehead Lake is attracting considerable attention at the present time. At the municipal election in Bangor on Monday next a question will be submitted to the voters whether or no the city shall waive its mortgage on the road and issue bonds to the amount of \$300,000 to complete the road to the Lake. A public meeting of citizens was held in City Hall on Wednesday afternoon, and a discussion of the question was participated in by Hon. A. G. Wakefield, Hon. S. H. Blake, A. W. Paine, Esq., Wm. H. McCrillis, Esq., and J. P. Bass. An adjournment was made till Thursday afternoon, when consideration of the subject was continued. There is a general desire to have the road completed, but there is considerable difference of opinion in regard to the best method of bringing this about.

—A correspondent of the Lewiston Journal says:—"The lumber business is very lively in Denmark the present winter. There are more or less teams in every school district engaged in hauling poplar, beech, oak, birch, hemlock, spruce and pine lumber, either to the depot at Brownfield or to the mills. The poplar is mostly hauled to the depot and sent to Cumberland Mills to be used for paper pulp. The birch is used at the clothes pin manufactory in this place, two hundred cords of which will be used for that purpose. But among all our manufactories the corn shop of Burnham and Morrill brings the most ready cash into Denmark. The shop is now superintended by Frank Giles, formerly of Minot, who is engaged with seven or eight men manufacturing cans for the season of 1882. They are intending to put up seven hundred thousand cans this season."

A VALUABLE ICE PRIVILEGE.—Walker's Pond, in the south-east part of Brooksville, is three miles in length and will average a half mile in width. It is fed by springs and yields a quality of ice that cannot be surpassed. The foot of the pond is within a half mile of good wharfage near the village of Sargentville, in Sedgwick. The bank of the pond at the foot could be lowered 10 feet easily, then the ice would have to be raised about fifty feet when it could be sluiced to the wharf or to the ice houses on the shore. With the present methods and machinery for conducting a large ice business this noble pond, so near tide water, seems to offer rare inducements to capital for its utilization. The superficial area of this pond, as shown above, figures up 41,817,600 feet. If the snow should be kept off until the time of cutting, it would, in ordinary seasons, attain a thickness of 18 to 20 inches. The capacity of this pond is to yield ice to the amount of over a million tons yearly, and with the right of way and shore privileges in the hands of a strong

company would yield good dividends. About 1000 tons are now being cut and hauled to the shore.

—Our Blue Hill correspondent informs us that the town has voted to appropriate \$50 to start a Museum and Library of Natural History, Science and Agriculture. This is an insignificant appropriation, but we hope it is only intended as a "starter" and that more will follow; meanwhile the committee hope to be able to increase their resources by private subscription and voluntary contributions, as the object is a most worthy one. The aims of the society are to develop the resources of the town and to furnish means for the prosecution of the study of the sciences and for experiments in them; to encourage the study of agriculture as a science; to collect a museum of minerals and other objects of Natural History and to awaken an increased interest in these subjects. The plan proposed is to keep the Library open a part of each day for reading and reference. It is hoped that a nucleus may thus be formed which will become in time an important educational influence. The committee have already received a gift of four fine mounted birds, and will make the best possible use of all objects or books and papers that may be donated. The committee are not all appointed yet, but now consist of Messrs. Johnson, Trip, Hinckley and Clay.

Railroad, Steamboat and Hotel Notes.

It is stated that the trustees of the Brown estate propose to expend \$75,000 in refitting and refurnishing the Falmouth Hotel, Portland.

Mr. Chas. Merrill, for several years past the popular manager of the Crawford House, has become a partner with the Barrons in their three White Mountain Hotels.

Towboat Ralph Ross, of this city, is at Portland receiving a new boiler and other extensive repairs. The Howell, which has also been repairing at Portland, returned to the Penobscot last week.

An additional locomotive for the Bangor & Katahdin Iron Works Railway arrived here last Saturday and went up the road. Another lot of freight cars will be ready for delivery about the middle of the month.

The Canada Pacific Railway Company have purchased the western section, from Montreal to Ottawa, of the Quebec, Montreal and Ottawa Railroad, from the Quebec Government, for \$1,000,000, less 10 per cent. rebate for finishing the line, which is 126 miles long.

Steamer Brooklyn, of the Dominion Line, sailed from Portland for Liverpool on Saturday last. She took five cabin passengers, and a cargo valued at \$308,510, including 316 head of cattle, 1,174 quarters of fresh beef, 135 quarters of mutton and 10,118 boxes of cheese.

The Winthrop House, at Winthrop, has been sold to Messrs. Richardson & Webb, for \$7,000. Mr. Richardson is from Lancaster, N. H., and Mr. Webb from Guildhall, Vt. The hotel will be made into a modern establishment for the benefit of visitors to Lake Maranocook.

Mr. H. P. C. Ketchum has had an interview with the Dominion Government in relation to his project for a ship railway across the Isthmus of Chignecto, between Nova Scotia and New Brunswick, and feels sufficiently encouraged to go on with his application for a charter.

To-morrow (Saturday) the towns and cities along the Knox & Lincoln R. R. will vote on the question of accepting the proposition of the Maine Central for the lease of that road. There is considerable opposition in some of the towns and there are fears that it may be defeated.

Among the houses now being planned for erection at Mount Desert this spring is that of Mrs. Pendleton of Washington. The architect is Mr. Henry Richards, who built the beautiful house of Mr. Charles Dorr, of Boston, pronounced by many people the finest on the Island.

The Mansion House, at Lincoln, having been purchased of T. Fuller, Esq., and thoroughly renovated and repaired by the purchasers, Messrs. John Hayes & Son, late of the Globe Hotel in this city, was formally opened for business the evening of Feb. 16 by a house-warming and dance.

Mr. J. E. Lynott has introduced in the New Brunswick House of Assembly a bill to enable the Grand Southern Railway Company to extend their line to amalgamate with or transfer to any other company and for other purposes; also asking for terminal facilities at Carleton and St. Stephens.

A Halifax exchange states that Mr. E. F. Clements, of the Clements Line, has purchased steamer New Brunswick, of the

International Line, to run in connection with the Dominion between Yarmouth, Portland and Boston. The New Brunswick will take her place on the route the first of June.

The Nova Scotia Railway Consolidation Bill having now become a law, Mr. Plunkett, representing the Syndicate, will leave for London about the middle of the present month, and expects to have all the arrangements completed to commence active operations, both in Cape Breton and Nova Scotia, as soon as the weather will permit.

The Phillips Phonograph publishes figures from the annual report of the Sandy River R. R. showing the business for 1881, and says: The little road continues to pay its expenses, interest on the bonded debt, and more, and, with good management and the increasing business, can be made to so still better. The stock, in reality, is worth as much to-day as ever.

The Government of Nova Scotia has made a good trade in its contract with the syndicate recently formed for the purchase of the railways of that Province. It secures the completion of the whole railroad system of Nova Scotia, consisting of 130 miles, and in addition receives \$1,300,000 for its interest in existing railways. The capital of the new company is ten millions of dollars.

A party of railroad men were in the city on Monday last and held a meeting furthering the interests of the All Rail Line. The party included President Jackson, General Ticket Agent Tuttle and Superintendent Tucker, of the Maine Central; General Freight Agent Berry, of the Eastern R. R.; Superintendent Burpee, of the New Brunswick Railway; Superintendent McLeod, of the St. John & Maine, and Capt. Chas. Spear, General Agent of the All Rail Line at St. John.

At the recent town meeting in Bridgton, the railroad ticket was elected, politics being entirely ignored, and all interests centering in the question of town aid for the proposed narrow gauge railroad to connect with the Portland & Ogdensburg at Hiram. The vote on the question of subscribing \$30,000 to the stock of the Bridgton & Saco Valley Railroad stood 533 in favor to 175 opposed, being 61 more than the necessary two-thirds. This vote secures the immediate building of the road.

Col. C. P. Mattocks, of Portland, has bonded the Cumberland and Oxford Canal property, from Saccarappa to Sebago Lake, to Massachusetts parties, to be used in the construction of a narrow gauge railroad, in order to develop the water power in this section of the canal. It is understood the Goff & Plummer mill property and the water power at the head of the dam, will be utilized to the fullest extent. One of the largest concerns in New England will develop the power at the head dam as soon as the railroad is constructed.

The City Council of Bangor have unanimously voted to submit to the voters at the municipal election on the 13th inst. the proposition that the city waive priority of its mortgage, \$925,000, on the Bangor & Piscataquis Railroad, and authorize the railroad company to issue first mortgages for \$300,000, of which \$40,000 is to be used in the purchase of the entire \$200,000 second mortgage bonds, as agreed by the holders thereof, and the balance, \$260,000, to be expended in the location, extension and completion of said railroad from Blanchard to Moosehead Lake. The road is in good condition and its business is steadily increasing. The net earnings for 1881 were \$43,712.13, and the figures for January, 1882, show a considerable increase over the corresponding month of last year.

The Rumford Falls & Buckfield R. R. Co. held their annual meeting at the office of the company in Canton, on Wednesday, March 1st. The annual reports of the President, Treasurer and Superintendent were read to the company. The receipts of the road for the past year show a rapid increase over those of the former year, and for the past five months of the current year are such as to indicate a very prosperous future for the road. The Superintendent in his report states that additional rolling stock has been placed upon the road during the past year, which was much needed, owing to large increase of business, and more has already been ordered to be delivered in the spring. He also reports the road-bed, track and rolling stock in good condition. No accidents have occurred during the year.

The Montreal Herald, in alluding to the recent transfer of the western section of the Q., M., O. & O. Railway to the Canadian Pacific Company, says: "The Provincial Government has to be complimented, and the city of Montreal has to be felicitated, on the consummation of an arrangement by which this city becomes one of the terminal points of what we trust will prove to be the Canadian highway from ocean to ocean. There is no point on the map of British North America which has a wider, deeper, larger interest in this matter of railroad development than Montreal has, or which has a greater

interest in the furtherance of the welfare of the road which has been extended by the recent acquisition. There is no doubt that Montreal, if its interests are carefully looked after, will become a railway centre, second only in importance to Chicago, and we regard the late arrangement as an important move in that direction. There can be no doubt that it will have the effect of moving capitalists favorable to the construction of the line between Ottawa and Perth, a possible link in a grand chain of inter-oceanic communication."

"Rockland will have two very fine hotels the coming year," said a gentleman the other day, "and I am pleased to see the movement, for one will keep up the excellent qualities of the other, and each will endeavor to surpass the other's exertions if possible. They will be practically new hotels, and that the travelling public will appreciate them there is no doubt. Besides the good name they will give the city, they will also do much to promote the interests of Rockland as a summer resort. We have had, with the exception of hotels, attractions for years, and now summer tourists will take pleasure in remaining here for a few days. There are pleasant drives about here and many of them. Warrenton presents an inviting appearance and is becoming more beautiful each year; Owl's Head is a most interesting formation of land and is an object of attention to all rusticators at Mount Desert, who pass through here; the kilns are very interesting places to visit, and our facilities for boating can not be bettered. With all these things and two fine hotels, Rockland ought to have a goodly number of visitors next summer."—[Rockland Courier.

The island of Campobello, which, like the name, is of rhythmic beauty, first came into prominent notice last season. The island is in Passamaquoddy Bay, a few miles from Eastport and about seventy miles northeast from Mount Desert. Some fifty years ago Admiral Owen, who then owned the island, built and occupied a fine house near its center, known as the "House in the Woods." This rugged, wooded and blooming isle, ten miles in length and from two to three miles wide, was purchased last year and a company formed with a capital of \$1,000,000 to develop it as a summer resort. Among the incorporators are Quincy A. Shaw, Henry S. Higginson, F. B. Beaumont and Alex. S. Porter, of Boston, the last named gentleman being the general manager. A new and beautiful hotel, called the "Owen," was built, and opened in August last. Another new hotel, to be called the "Tyn-y-coed," (Welsh for "House in the Woods") is in process of construction and will be completed early in June. It will be considerably larger than, and about a mile distant from, the "Owen," with which it will be connected by telephone. Work on the "Tyn-y-coed" is being rapidly pushed forward, the frame is all up and can be seen from Eastport, and the new house will have a commanding location giving fine views of the harbors. The two houses will be in charge of Mr. T. A. Barker, late manager of the Adams House, Boston, who will conduct them with a view to refined, home-like comfort at moderate prices.

Nuggets.

Prof. Baird sent 20,000 eggs of Maine salmon to Germany by steamer from New York on Saturday last.

H. E. Billings, of Blue Hill, whose farm is on the Falls road, sends us a good specimen of copper ore taken from near the surface.

At the regular monthly meeting of the Natural History Society of St. John, held on Tuesday evening last, Mr. Robert Chalmers read a paper on the "Surface Geology of the Bay Chaleur Region."

It is reported that specimens of gold have been found in the cellar of Mr. Drew Stewart's house, in New Portland, Somerset county. Gold specimens were found in the vicinity of Mr. Stewart's house last fall and active prospecting will commence as soon as the snow is gone.

There has been issued from the Lewiston Journal press a valuable contribution to scientific literature,—“North American lichens,” a book by Prof. Edward Tuckerman, of Amherst, Mass., author of “Genera Lichenum” and other scientific works, and an acknowledged authority on the subject.

THE BANKER'S MAGAZINE.—The March number of this valuable publication has been received. It contains able articles on “The Renewal of the National Bank Act,” “The Funding bill,” “The Clearing Houses and their Business in 1881,” “Cipher Telegrams,” “Reserve-Fund Legislation,” and many other papers relating to banking and finance.

Of the total population of 648,945 in Maine, as given by the last census, only 58,883 are foreign born. The French Canadians lead the list, having over 19,000 within our borders. There are estimated to be 6,000 French Canadians in Lewiston; Bid-

ford comes next, after Lewiston, in Canadian population. The New Brunswickians in Maine outnumber the Irish born, there being 14,000 of the former to 13,000 of the latter. There are but 688 Germans in Maine, and only 1,397 Scotch. The immigration from Ireland set in many years ago, while that from Canada is but a few years old.

The committee of the City Government to whom was referred the proposition of T. N. Egery, Esq., for the right to use the surplus water power created by the dam, reported at the monthly meeting of the city fathers on Tuesday evening last and recommended that Mr. Egery and his associates be offered the above water power, subject to sundry conditions among which are the following: The lessees to construct, within two years from date, a canal around the west end of said dam in the place indicated, and of the form, size and construction specified by Mr. Francis in his report, and convey to the city of Bangor without expense to said city all the land lying between the land of the E. & N. A. Railway and Penobscot river and between a line at right angles to the river, say 25 feet above the upper stone abutment at the west end of the dam, and a line at right angles to the river 300 feet southwesterly of the southwesterly end of the present pump house. This offer to remain open six months and no longer.

At a social meeting of the Bangor Art Association, held on Thursday evening of last week at the residence of Hon. A. C. Hamlin, in addition to the musical exercises of the evening, Prof. John S. Sewall read a very entertaining and instructive paper on “Christian Art in the Catacombs,” in which he sketched the history and character of those cities of the dead, and gave many illustrations of the early development of christian art in connection therewith; after which Dr. Hamlin gave a highly interesting account of the mineral discoveries at Mount Mica, in Oxford County, illustrated by his splendid collection of tourmalines and other precious stones obtained there. The cabinet collection of Dr. Hamlin comprises not only a great variety of specimens of the natural crystals as taken from the ledge, but also a large number of the gems beautifully cut and polished, and arranged in a dazzling array, including some of the finest specimens in the world. In addition to these Maine tourmalines, Dr. Hamlin has continued to add from time to time to the superb collection of choice American gems which have been set in the form of necklace, tiara, brooch and ear pendants composed of princely opals, tourquoise, tourmalines and other rare stones. Dr. Hamlin's account of the remarkable mineral deposits at Mount Mica, which are now being explored by a mining company of which he is President, was very interesting, and in connection therewith he gave many valuable facts connected with the rare jewels of the world. John S. Jenness, Esq., also exhibited some large and very handsome specimens of cut tourmalines in green, red and other colors, from the same locality.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 8, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Auqueez.....	27 1/2	30 1/2	27 1/2	30 1/2	27 1/2	30 1/2	27 1/2	30 1/2	27 1/2	30 1/2	27 1/2	30 1/2
Atlantic L. S.....	13	14	14 1/2	14 1/2	14 1/2	14 1/2	13	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Atlas.....	12	13	12	13	12	13	12	13	12	13	12	13
Blue Hill Copper.....	12	14	12	14	12	15	12	14	12	13	12	13
Brunswick.....	230	230	230	230	230	230	235	245	237	239	233	237
Calumet & Hecla.....	53c	65c	3/4	1	60c	62 1/2c	3/4	1	3/4	62 1/2c	3/4	1
Catalpa.....	1	1	1	1	1	1	1	1	1	1	1	1
Central.....	1	1	1	1	1	1	1	1	1	1	1	1
Copper Falls.....	1	1	1	1	1	1	1	1	1	1	1	1
Contentment.....	1	1	1	1	1	1	1	1	1	1	1	1
Douglass.....	1	1	1	1	1	1	1	1	1	1	1	1
Dana.....	1	1	1	1	1	1	1	1	1	1	1	1
Duncan Silver.....	1	1	1	1	1	1	1	1	1	1	1	1
Empire.....	1	1	1	1	1	1	1	1	1	1	1	1
Franklin.....	1	1	1	1	1	1	1	1	1	1	1	1
Harshaw.....	1	1	1	1	1	1	1	1	1	1	1	1
Huron.....	1	1	1	1	1	1	1	1	1	1	1	1
Hanover.....	1	1	1	1	1	1	1	1	1	1	1	1
Humboldt.....	1	1	1	1	1	1	1	1	1	1	1	1
International.....	1	1	1	1	1	1	1	1	1	1	1	1
National.....	1	1	1	1	1	1	1	1	1	1	1	1
Osceola.....	30	31	31	32	31	32	31	32	31	32	31	32
Peyable.....	12 1/2	13	12 1/2	13	12 1/2	13	12	13	11	12	10	12
Phoenix.....	1	1	1	1	1	1	1	1	1	1	1	1
Pontiac.....	1	1	1	1	1	1	1	1	1	1	1	1
Quincy.....	46 1/2	45 1/2	45 1/2	45 1/2	46 1/2	45 1/2	46 1/2	45 1/2	43 1/2	44	43	44
Ridge.....	1	1	1	1	1	1	1	1	1	1	1	1
Silver Islet.....	13	20	13 1/2	19	13 1/2	19	19	21	19	21	13	20
Star.....	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2
Sullivan.....	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2	1 1/2	2

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Arrive Bangor,	6.42	6.05
Leave Bangor,	7.35	7.15
Arrive Bucksport,	8.45	8.25

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The 5.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.

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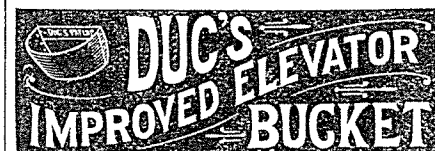
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SPECIAL NOTICE.

Harrington Silver Mining Co.

The Stockholders in the above company are hereby requested to send to the Secretary their trustee receipts and receive stock for the same, in order that arrangements may be made for resuming active work at the mine.

Per order of the President,
EUGENE H. DAKIN.

Secretary.

Bangor, February 3d, 1882.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

OF THE

Hercules Copper Company,
OF PENOBSCOT, ME.

135 Middle Street, Portland, Maine.

PORTLAND, ME., Feb. 7, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, Feb. 20th, 1882, by stockholders of record at the close of business, February 15th, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 25th day of March, 1882, will be delinquent and will be advertised for sale at public auction and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale will be sold.

The stock of this Company will be exchanged, share for share, for the stock and club receipts of the Hercules Mining Co.

By order of Board of Directors,
JOHN N. LORD, Treasurer.

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Maine Mining Journal.

DEVOTED TO THE MINING AND INDUSTRIAL INTERESTS OF THE NEW ENGLAND STATES AND BRITISH PROVINCES.

[Entered at the Post Office in Bangor, Maine, as second-class mail matter.]

5.—11.—116.

BANGOR, MAINE, MARCH 17, 1882.

{ \$2 per Year;
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W. FRANK STEWART,
Practical Geologist and Mining Engineer.

Parties who may desire my services as a mining geologist, in any portion of North America, can confer with me by writing to the care of the Mining Record, No. 61 Broadway, New York; or to the MAINE MINING JOURNAL, Bangor, Me.

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WM. M. JEWETT, Treasurer.

JOHN M. MERRILL, Secretary.

J. H. MOYLE, Superintendent.

Cherryfield Silver Mining Co.

OFFICE, CHERRYFIELD, ME. MINES, CHERRYFIELD, ME.

Capital \$500,000. 100,000 Shares. Par Value \$5.00**Unassessable.**

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WM. FREEMAN, Treasurer.

WM. FREEMAN, Secretary and General Manager.

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OFFICE, 4 SEARS' BUILDING, BOSTON, MASS.

Capital, \$500,000. Par Value of Shares, \$2.50.**Unassessable.**

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S. L. SYMONDS, Treasurer.

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OFFICE, PORTLAND, ME. MINES, DEER ISLE, ME.

Capital, \$500,000. 100,000 Shares. Treasury Fund, 52,000 Shares.

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GEO. F. GOULD, Treasurer.

GEORGE F. GOULD, Secretary.

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S. Z. DICKSON, Superintendent.

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OFFICE, ELLSWORTH, ME. MINES, GOULDSBORO, ME.

Capital, \$500,000. 100,000 Shares. Par Value, \$5.00.

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OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

250,000 Shares.

Par Value, \$2.00.

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Par Value, \$5.00.

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Directors, Jas. W. Davis, Ellsworth, Me.; M. Donelan, East Surry, Me.; Dr. L. W. Hodgekin, Ellsworth, Me.; Major General Convers Tower, England; Jas. P. Davis, A. W. Clark, H. B. Mason, Ellsworth, Me.
M. DONELAN, Supt.

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Office at Bangor, Me. Mines at Blue Hill, Me.

Capital, \$500,000.

100,000 Shares. Par Value, \$5.00 each.
Treasury Fund, 20,000 Shares.

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Directors—John S. Jenness, Charles Hamlin, Wm. D. Swazey, P. M. Laughton, Hanson Gregory, Jr., Horace P. Tobey and Frank H. Williams.
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OFFICE BANGOR, ME.
MINES AT BLUE HILL, ME.

CAPITAL, \$500,000.

100,000 Shares: Par Value, \$5.00.
Treasury Fund, 30,000 Shares.

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CHARLES K. MILLER, Supt., Camden.

EXETER SILVER MINING COMPANY,
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Capital, \$500,000. Shares \$5 each, unassessable; 40,000 shares in the Treasury.
President, D. N. Estabrooks; Vice President, J. Y. Richardson; Secretary and Treasurer, J. A. Blanchard. Directors—D. N. Estabrooks, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Lane, of Oldtown; — Sargent, of Brewer, and Charles Greenwood, of Corinna.
Office at Oldtown, Me.

FAVORITE MINING COMPANY.
Bluehill, Me. Incorporated July 1, 1881.
Capital, 500,000 Shares, \$5 each; assessable.
President, A. E. Herriek, Bluehill; Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herriek, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

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Incorporated Feb. 1880.
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Company's office at the Mine, West Sullivan.
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A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY
Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Rodliff, of Boston; Arthur S. Newman, of Portland; Roderick H. Candage, of Blue Hill.

McFARLAND SILVER MINING COMPANY
Hancock, Me.
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President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

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SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
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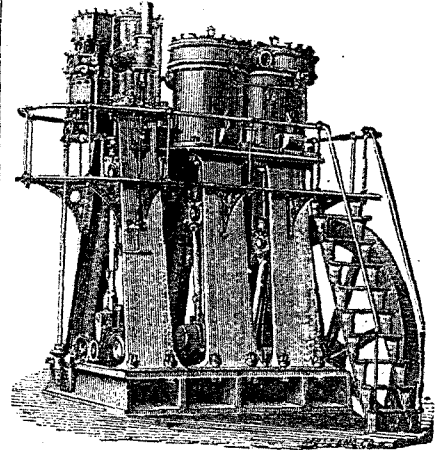
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C. C. LANE, 7 Exchange Place, Boston.

CHAS. H. LEWIS, 4 Sears' Building, Boston.

FRANK H. WILLIAMS, 22 Water St., Boston.

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ENGINEERS AND METALLURGISTS
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Sale of Delinquent Stock

STEWART COPPER MINING COMPANY.

Mines at Blue Hill, Me. Principal Place
of Business, Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, in Bangor, Me., (No. 3 Wheelwright & Clark's Block), on Saturday, the twenty-fifth day of March, 1882, at 2 o'clock P. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is ten (10) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued are as below indicated in their appropriate column.

Name.	No. of Certificate.	No. of Shares.
Atlantic Copper Mining Co.	596	1,454 1/4
O. Bailey	79	500
O. Bailey	80	100
O. Bailey	81	100
O. Bailey	82	50
J. R. Bodwell	57	500
J. R. Bodwell	88	100
J. R. Bodwell	89	100
J. R. Bodwell	90	100
J. R. Bodwell	91	100
J. R. Bodwell	92	100
J. R. Bodwell	93	100
J. R. Bodwell	94	100
J. R. Bodwell	95	100
J. R. Bodwell	96	100
J. R. Bodwell	97	100
J. R. Bodwell	98	25
G. S. Bean	106	100
G. S. Bean	114	100
G. S. Bean	115	100
G. S. Bean	137	75
C. C. Burrill	252	75
A. M. Bartlett	315	500
Robert Caldwell	318	101 1/4
H. P. Caldwell	321	300
John Humphrey, Trustee	205	100
Benj. Hinckley	317	18 1/4
Bion R. Lane, Trustee	228	100
Bion R. Lane, Trustee	240	100
Bion R. Lane, Trustee	241	100
Bion R. Lane, Trustee	242	100
Bion R. Lane, Trustee	243	100
Bion R. Lane, Trustee	250	57 1/4
J. F. Porter	258	18 1/4
G. M. Parker, Trustee	292	25
Wm. H. Raymond	223	75
H. N. Pinkham, Trustee	308	100
H. N. Pinkham, Trustee	514	200
H. N. Pinkham, Trustee	515	200
H. N. Pinkham, Trustee	516	200
H. N. Pinkham, Trustee	517	100
H. N. Pinkham, Trustee	594	100
H. N. Pinkham, Trustee	595	50
Geo. F. Ropes	503	75
J. A. Strout, Trustee	52	37 1/2
J. L. Skolfield	187	200
J. L. Skolfield	188	250
James H. Stetson	411	75
Edward Tyler	429	75
James Young	59	100
F. H. Williams, Trustee	585	500
F. H. Williams, Trustee	461	500
F. H. Williams, Trustee	409	500
F. H. Williams, Trustee	504	500
F. H. Williams, Trustee	438	500
F. H. Williams, Trustee	447	500
F. H. Williams, Trustee	448	500
F. H. Williams, Trustee	505	500
F. H. Williams, Trustee	462	200
F. H. Williams, Trustee	463	200
F. H. Williams, Trustee	506	200
F. H. Williams, Trustee	589	200
F. H. Williams, Trustee	407	100
F. H. Williams, Trustee	439	100
F. H. Williams, Trustee	440	100
F. H. Williams, Trustee	441	100
F. H. Williams, Trustee	442	100
F. H. Williams, Trustee	443	100
F. H. Williams, Trustee	449	100
F. H. Williams, Trustee	450	100
F. H. Williams, Trustee	451	100
F. H. Williams, Trustee	452	100
F. H. Williams, Trustee	453	100

F. H. Williams, Trustee	464	100
F. H. Williams, Trustee	536	100
F. H. Williams, Trustee	537	100
F. H. Williams, Trustee	538	100
F. H. Williams, Trustee	539	100
F. H. Williams, Trustee	540	100
F. H. Williams, Trustee	541	100
F. H. Williams, Trustee	542	100
F. H. Williams, Trustee	54	75
F. H. Williams, Trustee	502	75
F. H. Williams, Trustee	454	75
F. H. Williams, Trustee	455	75
F. H. Williams, Trustee	599	50
F. H. Williams, Trustee	543	50

Bangor, Feb. 22, 1882.

OFFICE OF

Milton Mining & Milling Co.

No. 1 SEARS BUILDING.

Boston, March 2, 1882.

By vote of the Stockholders, at a special meeting held at Portland, Maine, March 1, 1882, the property and assets of the Company were transferred to the MILTON MINING COMPANY, a corporation chartered by special act of the Legislature of Maine, approved March 17, 1881. An equal number of shares of the new company will be issued, share for share, to the holders of the stock of the Milton Mining and Milling Company, on surrender of the old stock to the Treasurer, which must be done within thirty days from this date.

CHARLES H. LEWIS, President.

ASSESSMENT NOTICE.

Milton Mining Co.,

Location of Mine and Works,
West Sullivan, - Maine.

Notice is hereby given that at a meeting of the Board of Directors, held on the first day of March, 1882, an assessment of ten (10) cents per share was levied on the Capital Stock of the Corporation, payable immediately to the Treasurer of the Company, No. 4 Sears Building, Boston, Mass.

Any stock upon which the above assessment shall remain unpaid on the 31st day of March, 1882, will be delinquent, and advertised for sale at public auction, and unless payment is made before, a sufficient number of shares of said stock will be sold to pay the delinquent assessment, together with the cost of advertising and expenses of sale.

By order of the Board of Directors,
GEO. E. HARRINGTON, Treasurer.
Office, 4 Sears Building, Boston, March 1, 1882.

N. P. DOE,

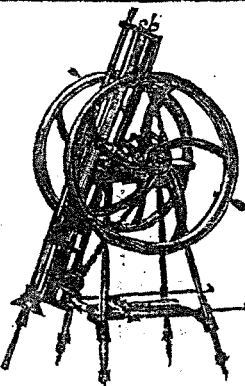
Engraver and Designer,

ON WOOD AND METALS.

Views of Buildings, Stock Certificates,
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Rock Drill.

Excels all others for prospecting work. Worked by man, horse or any power. Two men can handle and run it, and do the work of ten men. Weighs 500 lbs., and readily taken apart for transportation.

Address:

ISAAC W. ROYAL,
OR
JOSIAH S. RICEER,
No. 3 Main St.
Bangor, Me.

Sale of Delinquent Stock

TWIN LEAD MINING AND SMELTING CO.

Mines at Blue Hill, Me.—Principal Place of
Business, Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company, so many shares of each parcel of stock named below as may be necessary, will be sold at public auction, at the Treasurer's office, 4 Main Street, Bangor, Me., on Monday, the third day of April, 1882, at 2 o'clock P. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is five (5) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued are as below indicated in their appropriate column.

No. of certificate.	Name.	No. of shares.
3.	John S. Jenness	500
7.	M. B. Ricker	100
18.	J. S. Jenness, trustee	1000
19.	John S. Jenness, trustee	1000
20.	John S. Jenness, trustee	1000
21.	John S. Jenness, trustee	1000
22.	John S. Jenness, trustee	100
23.	John S. Jenness, trustee	100
24.	John S. Jenness, trustee	100
25.	John S. Jenness, trustee	100
26.	John S. Jenness, trustee	100
29.	G. W. Pickering, trustee	1000
31.	G. W. Pickering, trustee	1000
114.	Jacob Stern	50
115.	Jacob Stern	100
140.	W. J. Webb, trustee	100
143.	W. F. Seavey, trustee	100
144.	Jacob Stern	100
146.	W. J. Webb, trustee	100
170.	B. B. Thatcher	200
204.	John R. Mason, Treas.	500
210.	Mason & Reynolds, trustees	100
217.	C. E. Hill, trustee	250
218.	C. E. Hill, trustee	100
221.	S. S. Fisk	100
225.	J. E. Parker, trustee	100
243.	J. E. Parker, trustee	100
254.	F. H. Williams, trustee	100
255.	F. H. Williams, trustee	25
262.	Jacob Stern	100
362.	Jacob Stern	100
363.	Jacob Stern	100
365.	John R. Mason, Treas.	100
366.	John R. Mason, Treas.	100
390.	G. W. Pickering, trustee	500
392.	G. W. Pickering, trustee	500
406.	H. N. Pinkham, trustee	500
417.	H. N. Pinkham, trustee	500
418.	H. N. Pinkham, trustee	500
419.	H. N. Pinkham, trustee	100
420.	H. N. Pinkham, trustee	100
421.	H. N. Pinkham, trustee	100
720.	John R. Mason, Secretary, trustee for Twin Lead Copper Mining Company and stockholders	4,120

JOHN R. MASON, Treasurer.

Bangor, March 9th, 1882.

For NEW YORK SOUTH and WEST.
FALL FARE ONLY
RIVER FIRST CLASS \$3.00
LINE Limited Tickets.
Boston to New York.

Leave Boston from Old Colony Depot by special express train at 6 P. M. (accommodation at 4.45 P. M.) week days, connecting with steamer at Fall River in ninety minutes.

Tickets, Staterooms and Berths secured at No. 3 Old State House, corner Washington and State streets, and at Old Colony Depot.
J. R. KENDRICK, Supt. L. H. PALMER, Agent,
3 Old State House, Boston.

When answering or referring to our advertisements, please mention this paper.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

Subscription price, \$2.50 per year, or \$2.00 when paid in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MARCH 17, 1882.

SHALL WE HAVE A GEOLOGICAL SURVEY?

We wish to call the attention of our Delegation in Congress to a matter, of great importance to the material welfare of our State, submitted for their action during the present session. We refer to the proposed extension of the work of the United States Geological Survey into the States.

There is little hope of securing in the near future anything in the shape of a Geological Survey under the auspices of the State authorities. There is no territory in the Union more neglected in this respect than our own. Its resources are known by many of our inhabitants to be great in mineral wealth, as has been abundantly proven by the mining developments of the past three years; and the most effective and rapid expedient to make the knowledge of this fact general would be through the Government organization.

Preceding geologic investigation, a triangulation of the State would be necessary. This is done in so perfect a way that every elevation, the course of every stream, the boundaries of every timber district, the exact method by which proper drainage can be secured, and the geology of the State, can be so graphically delineated by maps made as the work progresses, that our whole area—its resources and general physical features—can be as readily appreciated and easily understood in the distant parts of the civilized world as by the most intelligent and highly educated of our citizens.

As the work progressed, reports would be written and published enumerating and describing in detail our varied resources—mineral, agricultural, timber, water-power, etc., etc.

The cost of this work will be comparatively insignificant;

the benefits to our people and, by relation, to the country at large will be incalculable.

The Geological Survey is under the directorship of Prof. J. W. Powell—a man of unbounded energy and great practical and scientific ability.

We trust that our Senators and Representatives will exert their utmost endeavors to secure the adoption of this greatly needed measure.

Mr. Eugene M. Hersey is now perfecting arrangements for the illumination of the streets of Bangor with the electric light. There will be four lights of 2,000 candle power each set up—one at the Post Office and three in West Market Square. These great lights will be allowed to remain a month on exhibition; between the hours of seven and twelve o'clock P. M., they will diffuse their powerful white light, making the minutest objects visible, and virtually turning night into day. The power will be obtained from the Hinckley & Egery Iron Works, the electric current being conducted to the burners over a double insulated wire, run like a telegraph wire over the roofs of the buildings. Mr. Peck, the electrician, will be here next week, when some of the apparatus will arrive and will immediately be put up. It is proposed to have the lights in West Market Square very high, pendant in the air, between two buildings, so that all of the streets leading out of the Square may be lighted at once. The cost of each light of 2,000 candle power each is 50 to 60 cts. a night, but one of these is equal to 125 common gas lamps, which have but 16 candle power. Mr. Hersey is Treasurer of the American Electric Light Company of Massachusetts, and he proposes forming the "American Electric Light Company of Maine," for the purpose of illuminating Maine cities and towns with the same light as that used by the Massachusetts Company. We welcome the advent of the electric light to our city and expect before long to see it in extensive use.

In the Nova Scotia House of Assembly on Thursday of last week Hon. Mr. Holmes read a letter from Mr. E. W. Plunkett, agent of the Nova Scotia Railway Syndicate, submitting a proposal to contribute in behalf of the Company the sum of \$50,000 toward an investigation, through a Commission to be appointed by the Government, of the natural resources and advantages of that Province, with a view to the publication of reliable information concerning them and thus bringing their merits to the attention of capitalists; such a Commission to consist of five or seven members, of recognized eminence and high character in their respective professions. The proposal was favorably considered, and a resolution authorizing such a Commission to be secured, and requesting the Government to procure such further aid toward the necessary expenses as can be obtained from the Dominion Government, was unanimously adopted by the House. The liberal offer of the Railway Company is not, of course, prompted by purely disinterested motives, as they are about to invest some \$12,000,000, and come into possession of large tracts of land in that Province; nevertheless, no one can fail to appreciate the beneficial effect the proposed measure must have upon the future of Nova Scotia,

in directing attention to her rich and varied resources and the vast and promising field she offers for the profitable employment of labor and capital.

The annual meeting of the stockholders of the Bangor & Piscataquis Railroad was held in this city on Wednesday. President Giddings presented the report of the Directors and Treasurer Blood read his annual report. The statement of the Treasurer shows that the gross earnings of the road for the year were \$104,524.80 and the net earnings \$43,712.13. During the year 1881, \$14,000 was paid into the treasury of the city of Bangor. The exhibition of earnings is a very flattering showing, the figures being much greater than in previous years. The election of directors resulted in the choice of Moses Giddings, A. G. Wakefield, John S. Rick-er, J. S. Wheelwright, M. S. Drummond, Arad Thompson, Thos. S. Moor, Wm. H. Strickland, Charles L. Marston and Wm. B. Hayford of Bangor, and A. M. Robinson, of Dover. At a subsequent meeting of the directors, Hon. Moses Giddings was elected President, H. W. Blood Clerk and Treasurer, and Arthur Brown Superintendent. At the city election on Monday it was voted by the citizens of Bangor to waive the first mortgage on the Bangor & Piscataquis Railroad and allow the company to issue \$300,000 in bonds to complete the road from Blanchard to Greenville at the foot of Moosehead Lake. The building of the above extension will be commenced as soon as the company can legally proceed.

The copper market continues dull, but as the arrivals are and will continue to be small until the opening of navigation, the supply is dwindling down to narrow limits, and it is estimated that the stock on hand at New York will not exceed a half-million pounds. As a consequence it is not unlikely there may be a temporary advance in price. What the future of the market beyond that may be, is uncertain. The Engineering and Mining Journal is informed that there is a movement on foot to pool the production, or make some arrangement that will prevent an excess of copper during the present year. It is claimed that the Lake Superior people will guarantee not to make more than 55,000,000 pounds, and that the most prominent Arizona mine will not increase its present capacity during the year. We do not take much stock in these stories; but our belief is that, notwithstanding a large increase of production may be expected the present year, the consumption is so large and the demands of the trade are increasing to such an extent that prices will remain good throughout the season. Arizona copper is quoted at 18 3-4c; Baltimore 19c; and Lake 19 1-4c.

The recent decision of the Supreme Court at Fredericton, N. B., dissolving the injunction granted some time since to the Grand Southern Railway Company, restraining the Carleton Branch Railway Company from interfering with the trains of the former running over the latter's road, by no means definitely settles this vexed question, as several newspapers pretend to believe. The judges were divided in their opinions, and the case will undoubtedly be carried to Ottawa for final arbitrament. Meanwhile a bill is pending in the Provincial Legislature authorizing the Grand Southern to construct and enter Carleton by a line of its own, in-

dependent of the Carleton Branch. The Grand Southern is destined to become an important line of railway, and all efforts on the part of rival lines and interested parties to deprive it of terminal facilities at Carleton will prove un-availing.

We heartily concur in the following from the Portland Globe: "Senator Frye's bill for the relief of domestic shipping is a step in the right direction, and maritime constituencies would do well to instruct their representatives to give the measure their hearty support. Should this bill become a law many of the hindrances and burdens which now prevent profitable operations would be removed; new life would be instilled into our coasting trade; our ship building interests would be benefitted, and our fishing trade relieved of an incubus which now prevents successful competition with Canadian rivals. Although purely a measure of relief for domestic shipping, its influence cannot be overestimated, and the good results which will follow its passage must prove an irresistible argument for the like relief of our foreign shipping."

We learn of a movement recently started looking to the establishment in this city of a large woolen mill. The matter has not as yet taken very definite form, but it is in the hands of men of enterprise and capital and we expect to witness it pushed to completion. A large woolen factory would furnish a home market for the wool of Eastern Maine and would give employment to a great number of hands. In the march of advancement and development, manufactures play an important part, and the prosperity of our city in the future will depend to quite an extent upon the establishment of such enterprises as these in our midst.

The mining share market presents no feature of special interest. Sales of Maine stocks at the Boston Mining Board for the week ending on Wednesday last aggregated 30,450 shares, as follows: 17,000 Milton at prices ranging from 8c to 4c, closing at 8c; 4,000 Copperopolis at 5c and 4c, closing at 5c; 1,000 Twin Lead at 9c to 7c, closing at 9c; 1,260 Sullivan at \$1.25 to 93 3-4c, closing at \$1.05 3-4; 2,300 Deer Isle at 14c, and 1,900 Mammoth at 7c. Sales of Maine shares at the Old Board were confined to 3,800 Sullivan, which declined during the week from 1 1-4 to 31-32, afterward recovering to 1 1-16.

Voting upon the Knox & Lincoln Railroad has been further postponed to allow time for a consideration of the Maine Central's proposal to purchase the road outright. If the Knox & Lincoln can be sold at a reasonable figure, there should be no hesitation about accepting the offer in preference to leasing upon any terms. The Bath Independent gives circulation to the absurd rumor that Jay Gould and the Boston & Maine both want the road, and will make offers in case that of the Maine Central is not accepted.

The Glee Club of the New York Stock Exchange gave a concert at Chickering Hall on Saturday evening last, and the Stockholder says: "The voices that bellow and growl defiance on the floor of the Exchange during the day, roar and accord very sweetly on the concert stage, and even

Brother Talmage would hardly recognize in a select band of gentlemen in full dress the moral pirates who daily force innocent victims to walk the financial plank into the depths of ruin."

The Blue Hill correspondent who furnished the Engineering and Mining Journal as well as several newspapers in this State with the information (!) that the Douglass Mine "was closed on the 1st inst. for three months, and it is feared indefinitely," should have a brass medal.

At a meeting in Portland on Saturday last, existing vacancies in the directory of the Mascot Mining Company were filled by the selection of Hon. F. M. Laughton and John S. Jenness of this city and E. H. Osborne, of Boston.

The Portage Lake Mining Gazette says: "It is reported that Mr. Francis Ellershausen and Mr. W. McGibbon, who were up here looking after a copper property, have taken an "option" on an idle mine in Ontonagon county."

Personals.

SUPR. WHITE, of the Douglass, was in the city on Wednesday.

W. W. PRESCOTT, of the Biddeford Union and Journal, has purchased the Montpelier (Vt.) Watchman and State Journal.

J. R. HOLT, Esq., Cashier of the Merchants National Bank of Bangor, died during the past week after a long and painful illness.

MR. J. F. MOSES, the popular landlord of the Robinson House, Bucksport, we are pleased to learn, is rapidly recovering from his recent serious illness.

MR. WILLIAM S. DENNETT, Cashier of the Second National Bank of this city, has been a bank cashier continuously since 1844, and in point of active service in that position is surpassed by only one Maine cashier.

"JOE" HUTCHINS, of Blue Hill, the well known stage driver, died at his home in Sedgewick last week, of consumption. Joe was very popular with the travelling public, and will be greatly missed by his host of friends.

PROF. C. E. HAMLIN, formerly of Colby but now of Harvard University, has started for Bohemia, Austria, to examine a collection of fossils, with a view to purchasing them for the Museum of Comparative Zoology at Harvard.

Dips, Spurs and Angles.

—Carries all before him—the man with a wheelbarrow.

—It is said there is a man in the Gunnison country, Colorado, who, although only twenty-six years of age, has already killed twenty-seven men. He is a physician.

—A prominent Philadelphia operator recently remarked that there was "nothing in life so pleasant as running a great corporation if it was not for the d— stockholders."

—The Sierra County (Cal.) Tribune complains of the increase in its circulation because it makes its bills for white paper run up. It says white printing paper has to be purchased for cash, and a newspaper cannot afford to have a large circulation and take pay for subscriptions in specimens of croppings from newly-discovered mines, stogy cigars, pumpkins and red apples.

Altar Gold and Silver Mining Company.

FACTS OF INTEREST TO BANGOR PARTIES—AN UNWORKED MINE PRODUCES \$75,000 IN CLEAN CASH FOR THE CLEVER MANIPULATORS OF A VERY OLD SCHEME—A SWINDLING OPERATOR COME TO GRIEF AT LAST.

Many of our readers will sorrowfully recall the circumstances under which shares in the above named Company were distributed throughout this State in 1879, at a cost to the present holders of from \$3.50 to \$5 per share. A few months since, it will be remembered, the MINING JOURNAL published an extract from the Tucson (A. T.) Citizen stating that Mr. Gehricke, into whose hands as former owner the property had lapsed for non-payment of purchase money, was about to visit San Francisco and Boston for the purpose of interviewing the stockholders in the Company, with a view to obtaining the necessary capital to develop the mines. Mr. Gehricke arrived in Boston about two weeks since, and the information furnished by him has resulted in the arrest of the leading promoter of this gigantic swindle. It is hoped that the unfortunate stockholders are now in a fair way to obtain some sort of satisfaction for their grievances. The Boston Sunday Globe of March 12 tells the story as follows:

In the year 1879 Francis B. Webster, who resides on Maple Avenue, Cambridge, and his son, Fred R., who is now engaged in the wool business in California, purchased the old Altar Mine, in the district of Altar, State of Sonora, Mexico, from Otto Gehricke, agreeing to pay \$2500 in cash and one-quarter of the capital stock. Fred was made president and his father was chosen manager, the Bank of California being named on the prospectus as treasurer of the company. The capital stock was divided into 100,000 shares and was to be sold for \$100 a share.

A short time after the purchase was made, Francis Webster started East, and, it is alleged, represented that the mine was an extraordinary one and contained fabulous wealth, and that the company, which was called "The Altar Gold and Silver Mining Company," had paid \$60,000 for the mine, and that he had come East to employ a party as agent in order to protect the stockholders from being swindled. On the announcement being made of the richness of this mine, there was a perfect craze among many of the prominent people of New England for some of the shares. Webster subsequently engaged James M. Palmer, formerly a minister of Cambridge, as the agent he wanted, and to him, it is alleged, he represented that the products of this mine were richer than anything ever before heard of, and he showed Palmer a piece of silver that he said came from this mine. Mr. Palmer having received the above information, which he believed to be true, started for Maine, where he was well known, visiting the colleges, seminaries, etc., in that State and disposing of a large number of the shares. Rev. Mr. Talcott, of one of the cities visited by Palmer, thinking he had an unusually good and rich bargain, invested nearly all he had. J. H. Hasson, of the Classical Institute at Waterville, C. W. Goddard, of the post-office in Portland, a large number of well known citizens of Bangor and many other prominent parties in Maine quickly took up a large number of the shares. In the meantime Mr. Webster, it is alleged, was disposing of a large number of the shares in Boston and vicinity to many prominent parties, representing to them that the wealth of the mine was enormous, they having alone on the dump 300 tons of ore, worth from \$40 to \$1500 per ton, and tons of other ore, done up in canvass bags and guarded, that was worth from \$1000 to \$3000 a ton.

The excitement over the mine began to soon die out, and in the summer of 1879 the Websters abandoned the mine, giving as their reason a lack of funds. The result of the sales of the stock netted \$75,000 or more. Nothing being heard from the mine or its management, the purchasers of the stock gradually became suspicious, and a short time ago it came to the ears of many of them that this same Webster was the principal in the great Montezuma Mine swindle. This was the means of creating considerable suspicion, and finally Mr. A. S. Harris, of the Walworth Manufacturing Company, wrote a letter to prominent parties in California for information in regard to the true condition of the mine. From them Mr. Harris received a reply that the mine was never worked. Another letter was sent to the Bank of California, said to be treasurer of the company, and which, it is alleged, Mr. Webster represented had bought a large number of the shares. The officials of the bank replied to the letter, saying that the bank was not the treasurer, neither was it the holder of any of the stock. A letter was also addressed to Judge Bisbee, who was also represented to be a large stockholder, but the judge contradicted the statement. J. War-

ren Merrill, of Cambridge, was next consulted, it being alleged that Mr. Webster stated that he (Merrill) had contracted with others to purchase 1000 shares, but this statement, Mr. Merrill says, is false. Otto Gebrieke, who was retained by the Websters as superintendent, but by them discharged later because he refused to send a statement to Mrs. Webster in Boston that they paid \$60,000 for the mine, came to this city about two weeks ago, and he was immediately called upon by the purchasers of the stocks here, and from him they learned that the mine was never worked, and as he had not received his pay from the Websters he had the mine recorded in his name, and said that the statements about the fabulous wealth of the mine were false, but if the mine was properly worked it would produce something good. Proceedings were at once commenced by Stephen Jennings, who was the owner of a large number of shares, to have Webster brought to justice, and last week he placed the case in the hands of Inspectors Skelton and Hanscom, of the Central station, who had Webster indicted by the grand jury, and a warrant was issued and Webster was arrested by the above officers yesterday morning and brought before the bail commissioners, where he was bailed by his brother-in-law in the sum of \$7000.

EASTERN MINING NOTES.

NEW ENGLAND SMELTING WORKS.—The Advertiser states that the New England Smelting Company have just sold thirty-six tons of refined lead from Mascot ore at 5 1-2 cents per pound; also ten tons of malleable ingot copper, to fill a special New York order, at one-half a cent per pound above the market price.

EL DORADO.—A special stockholders' meeting of the El Dorado Silver Mining Company is called, to be held at Portland on March 20th, to see if the company will vote to sell their property to a purchasing corporation or party, or provide some means for giving it a market value.

Blue Hill.

DOUGLASS.—Manager Thompson has been at the mine during the present week, but has returned to Canada; he will make his headquarters at Blue Hill after April 1st. Work was resumed in the shaft on Monday last, contracts having been let for a given amount of sinking and stoping. During the month of February there were broken (in stoping and sinking) 48 fathoms of the vein, or over 900 tons, 800 tons of which were hauled to the surface. The construction of a large cupola smelting furnace, to have a capacity of fifty tons per day, will at once be commenced, the materials being already upon the ground.

YOUNG HECLA.—Operations on the Young Hecla progress vigorously and the shaft is now being sunk in the mineralized ledge. The annual meeting of the stockholders of the Young Hecla Mining and Smelting Company will be held, per adjournment, on Saturday of this week.

BLUE HILL BAY.—At the annual meeting of the Blue Hill Bay Mining Company, held at Portland last week, the following officers were elected for the ensuing year: President, Henry P. Merrill; Treasurer, Lorenzo Taylor; Secretary, Geo. F. Gould; Directors, H. P. Merrill, D. B. Ricker and Geo. F. Gould. It is said that work will shortly be resumed at the mine.

Sullivan.

MILTON.—Superintendent Shoenbar's annual report has been presented, and we regret that its length prevents us giving it a place in our columns. It is a valuable and interesting document, and gives a highly encouraging statement of the present condition and outlook of the mine. The total length of shafts, levels, drifts and winzes is 1630 feet. Several veins have been cut which promise well for future development, but, says the report, "our present chief reliance for an immediate source of production is from vein No. 3, which makes an excellent showing of ore in winze No. 1, and is improving as rapidly as can be reasonably expected, considering the insignificant depth as yet attained. The ore assays from \$25 to \$30 per ton, and can be properly manipulated and good management be made to leave a good margin over and above all expenses." The company employ 35 men at the mine, and work continues without interruption day and night. The machinery is in first-class running condition, and is doing the work expeditiously and at a moderate expense. In conclusion, the report says: "As soon as connection shall be made between shafts Nos. 1 and 2, and the winzes driven to a reasonable depth, we will be in position to open up sufficient drifting and stoping ground to enable us to extract ore in large quantities. The good showing now made in winze No. 1 justifies the most sanguine expectations for the ultimate success of the property, and I feel confident that if

nothing occurs to retard the progress of the work as now conducted, the Milton will be a paying property inside of twelve months."

COPPEROPOLIS.—In the reports of the early work done on a mine there will of a necessity be a great sameness; beyond the stating of the regular routine of work, the depth attained in its shafts or the changes in the character of ground, there will be a repetition of the same statements from week to week. Work has been conducted with the usual success, and there are no noticeable changes to state; good work done, in good character of ore in the vein, and everything moving right along.—[Sullivan Bulletin.]

GOLDEN CIRCLE.—The Golden Circle Mining and Milling Company have secured the services of Mr. R. B. King as superintendent, and he will commence active operations at the mine on Monday, March 27th. Mr. King, although not a practical miner, is thoroughly posted in mining literature, a mineralogist of no mean pretensions, a skilled assayer, and perfectly familiar with all the metalliferous combinations at Seward's Island. He will doubtless prove "the right man in the right place," and the stockholders of the company have reason to be pleased with the action of the directors, who confidently expect an early "boom" in stock as its result.—[Portland Argus.]

New Hampshire.

The Mountaineer reports work on the Crane Mine, at Dalton, progressing somewhat slowly, owing in part to the hardness of the rock. Five men are employed.

We are informed that the famous Fogg Mine, more recently known as the "Grand Trunk," at Milan, has recently been purchased by Mr. George Thomson. Sixty men are now employed and the property is being vigorously developed.

MASCOT.—The Advertiser reports that the Mascot Mining Company received \$1,000 from the New England Smelting Company last week, making a total of \$8000 thus far received for ore extraction in development work during the last seven months. Shipments continue regularly.

Mr. A. S. Twitchell, who has for several years been out of practice on account of his health, has so far recovered that he has fitted up his office in his block and will gradually return to practice. He has a very pretty office, and, being interested in the mining business, especially in those at Milan, will devote a portion of the time to that new industry, inviting all those interested to call and examine the ores, which will be kept from all the mines in this vicinity, and as several new openings are to be made as soon as the spring is sufficiently advanced, with the best indications of success, an office of this kind here, where all the necessary information can be furnished, seems to be very desirable. Mr. Twitchell has been for several years engaged in this work, with the full belief that there was more than barren rock beneath our granite hills, he, with Mr. Ira Mason, of Berlin, being the very first to break ground in search of what they believed to be concealed, and while many have thought it a fruitless task, there are none who will not be glad of the success which bids fair to crown their efforts and the efforts of others who have followed them in the work.—[Gorham Mountaineer.]

The gold mining industry of Lisbon, N. H., has now grown to large proportions, and upon the opening of work in April additional shafts will be sunk and a larger force of men put on than ever before. Gold was discovered there in 1866, a stone containing it, found in a wall, first directing attention to the matter. Since their discovery the mines have been worked by several different companies until the present time, when all the property has passed into the hands of the "Essex Gold Mining Company," of which George W. Ellis, of Lynn, Mass., is president, and W. K. Park, of Lisbon, superintendent. Two shafts have now been sunk 135 feet, being connected by a 220-foot tunnel, from which cross cuttings have been made. These cuttings have shown a vein of gold-bearing ore thirteen feet in thickness, which runs through the entire property, a distance of 5000 feet. Other veins but slightly smaller than this have also been laid bare. The rock from these veins yields \$9 per ton, and over \$75,000 worth of ore has been taken out since operations began. There are other properties controlled by the Essex Company, and in the immediate vicinity of these shafts. The "Little Gem" is situated on the side of a hill, which is covered with boulders that show gold in considerable quantities; a forty-foot shaft has been sunk there and a rich twenty-foot vein struck; from the "Ellis cut" 1000 tons of ore, valued at \$14 per ton, was taken last year. Upon the opening of the work a tunnel 1000 feet long will be run into the eastern side of the hill to strike a vein which lies about 200 feet below the surface. Other claims near by are known as the "Bedell Junior," "James Clough," "Henry Ash," "John Miner" and "Ash,"

properties. The Essex Company own a crushing mill 50x80 feet in size, now containing ten stamps, with a capacity of forty more, an eighty-horse power engine furnishing motive power.—[Boston Globe.

British Provinces.

A strike is in progress at the Stellarton Coal Mines.

The Bay of Fundy Quarrying Company, at Harvey, N. B., employ seventy men and intend to conduct extensive operations during the coming summer.

We acknowledge the receipt, from Inspector Gilpin, of the Report of the Department of Mines, Nova Scotia, for the year 1881. We shall publish extracts from this valuable document in a future issue.

The New Era reports that a reliable assayer has just completed an examination of the ore from the silver and lead mine at Smithfield, Middle Stewiacke, N. S., owned by Messrs. Clark & Flemming, of Halifax. He reports the mine to be a very valuable one and to promise excellent results.

The St. John Sun says that Mr. James Brown, who lives at the Coal Mines on the Salmon river, five miles below King's, has discovered on his farm a new seam of coal six feet in thickness, which is the largest seam found in Queen's County thus far. He has men now employed in digging a tunnel to it from near the river bank so as to convey the water from and give him opportunity of opening the mine.

The mining, timber, phosphate, sugar, butter and cheese industries are now in a state of transition which has already been productive of much good, and the Government propose to give a fresh impetus to this movement by means of other measures for their encouragement, tending to assure the general prosperity and thus further the settlement of the wild lands. Among these measures will be the establishment of a School of Mines under the direction of able Professors, and also of special schools of instruction in the methods of turning farm produce to the best advantage.—[Extract from the Lieutenant Governor's speech at the opening of the Quebec Legislature.

Mention was made last week of the purchase, from Messrs. Adams & DeCamp, of a valuable gold property at Chezzetcook, N. S., by the Oxford Gold Mining Company, of New York. The Halifax New Era learns that the company have contracted for a stamp mill, 50 horse-power engine and boiler, steam hoisting and pumping works, and otherwise arranged for the thorough equipment of the property. Meanwhile active and systematic preliminary mining is in progress, and recent developments indicate that the property is even richer than was anticipated. This company announce their willingness to erect a large custom mill so soon as other developments in the district will warrant it.

Newfoundland is the oldest of the British colonies. It is nearly as large as England, has a population about equal to that of Montreal, and yet the interior of the Island is as much a *terra incognita* as the country bordering on the Congo, or the heart of Greenland. From statistics we learn that not one-half of the children go to school; that \$100,000 is spent annually in relieving the poor, and that her flour, oatmeal, meat, peas, potatoes, hay and straw have to be imported. And yet the country is rich in ores. Copper and gold, silver, nickel, lead and iron have been found in paying quantities, and the soil is, we are told, far better than is generally supposed. If there were less fish on the banks, and more picks and ploughs in the interior, it might be all the better for Newfoundland.

COPPER PRINCE.—For years the high mountain at the entrance of Digby Gut, Nova Scotia, has been known as Copper Mountain, and large quantities of native copper have been taken out by geologists and specimen-seekers. Now, however, systematic work is about to commence by the Copper Prince Mining Company, who have a government license, covering five square miles of surface, on which they can select one square mile, not over 2 1/2 miles on the vein. Negotiations are now going on for a concentrator, crusher and engine. Work is to be commenced immediately, and as a tunnel will be started at the foot of the mountain, over 400 feet of stoping can be done, over one mile in length, without sinking a shaft or buying a pump, and as the ore can be mined and put into ingot copper for less than \$3.50 per ton, the vein being 12 feet wide and 2 1/2 miles in length, the prospects are very flattering for dividends.—[Stockholder.

HIBBARD ANTIMONY.—Mr. W. I. Smart, Superintendent of the Hibbard Antimony Mine, at Prince William, York county, N. B., has recently been interviewed by a reporter of the St. John Daily Sun, and we subjoin the following interesting extracts from his statement as published in that Journal: "We

have about 700 feet of levels. We have three different shafts open—one 200 feet, one 110 feet, and the third 87 feet deep, showing by actual measurement a body of ore in sight and ready to take out for shipment of 2,586 tons. Besides this there is 2,500 tons which could be extracted, or a total of over 5,000 tons, lying ready for removal from the mine. The mine is equipped at the main shaft (No. 2) with a 125 h. p. engine, 2 crushers, 1 set of Cornish rolls, three of Bradford's jigs for concentrating, all ready for running, with a capacity of 30 tons per day. At the Prout shaft we have a large hoisting engine and boiler complete, which will hoist from the Prout and No. 4 shafts all the ore which may be blasted, which ore is delivered to the main shaft or mill, where the richer portions are 'cobbed' out and the poorer classes passed through the crushers and concentrated. The mine from these three shafts is now prepared to put out thirty tons of crude ore per day of 12 hours. We commenced shipping last week by rail via Vanceboro to Boston. The first car load has gone. The second car load is being packed to ship. As soon as the rolls, which are now on the way to the mine, are in place—in a few days—we shall be able to ship from three to five tons of 50 per cent. ore, daily—ore that is worth in the market over \$75 per ton. The mine is so promising now that there is but little question that it will surpass in value the hopes of the most sanguine friends of the enterprise. The ore is improving all the time, both as regards the extent and quality. The vein keeps enlarging as it goes down and we get a larger percentage of 'first' class ore."

EASTERN INDUSTRIES.

—The maple sugar season has opened.

—Mr. John Mabry, of Norway, expects to get out 1,000 hack-metack knees this spring.

—Ten tons of powder were shipped last week to Chicago from the Warren Powder Mills.

—Lime shipments by water and rail from Rockland during the week ending on Tuesday last aggregated 29,480 casks.

—Isaac A. Murch, of Ellsworth, has opened a shop for the manufacture of ship's blocks in the Foundry building at Belfast.

—The Porgie Oil Works of Albert Gray & Co., at Muscongus Harbor, Lincoln county, will be sold at auction on Tuesday next.

—The Brewer Steam Brick Company made 4,000,000 bricks last year, and will make about the same amount the coming season.

—The lime kiln at Camden is in full blast, and they are drawing about 120 casks daily; 950 casks were shipped to Boston last week.

—Messrs. White & Rollins, of this city, are making nearly 6,000 pounds of toilet and laundry soap each week at their factory in Morse's Lane.

—The total value of foreign exports from the port of Portland for the week ending on Saturday last was \$294,390, including 50,470 feet of lumber.

—S. W. Lawton, of Skowhegan, has purchased 300,000 ash hoops this season, paying from \$9 to \$27 per thousand; the average price is about \$15.

—The Grand Manan fishermen report business better this season than for five years previous. Herring and codfish are in abundance and are being pickled and shipped in vast quantities.

—The work of rebuilding the tannery buildings burned at Forest City has already commenced. The buildings will cost \$10,000. No workman lost employment on account of the fire.

—Messrs. Gunnison, Moulton & Co. are turning out from their shop in East Eliot one thousand ladder rounds daily, which they ship to Mr. C. W. H. Moulton's ladder works at East Cambridge, Mass.

—Messrs. Miller & Cleveland, Camden, employ about 185 shirt makers in the manufacture of woolen shirts. They have ten machines run by steam power, and are finishing from 200 to 250 dozen per week.

—The Machias Republican says that Messrs. Lawrence & Dodge have been running their Sardine Factory at North Lubec to its full capacity for the past few weeks. Herring have been abundant at a low price.

—Lewiston merchants paid over \$10,000 to farmers for apples during the month of February. The Journal says that 12,000 barrels of apples have been shipped from that city to Western points during the winter.

—The Haskell Silk Company, Saccarappa, have twenty looms in place, and one already started on silk that will probably retail for \$2.50 per yard. One loom is capable, under ordinary circumstances, of turning off fifteen yards of silk per day.

—There is talk in Monson of a woolen factory being erected in that place the coming season. It is rumored that Lowell parties, owning largely in the slate quarries, are to take hold of the matter, purchasing the water privilege for that purpose.

—There is still an abundance of snow in the woods for lumbering operations, and with moderate weather the hauling will continue good for at least a week longer. It is estimated that the season's cut on the Penobscot will approximate 125,000,000 feet.

—Forwardings of men's fine goods from the Auburn shoe factories are very heavy, while factories running on women's goods are doing a better business than last month. The total shipments are 2,165 cases, this week, against 1,976 cases last week.—[Lewiston Journal.]

—Efforts are being made to establish one or more shoemaking enterprises in Skowhegan. The fire in Haverhill induces the belief that some of the shoe manufacturers may find it for their interests to locate elsewhere, and Skowhegan capitalists are ready to "offer inducements."

—The Westbrook Dye Works, at Saccarappa, are in full operation, and 10,000 yards of duck are being dyed and finished daily. The capacity will soon be increased to 20,000 yards per day. The new mill is rapidly approaching completion; the cards are in and being clothed ready for the grinder.

—Messrs. B. F. Spinney & Co., of Norway, are doing a lively business at the Norway shoe factory. Their weekly pay roll foots up about \$2,800, which sum is paid to the hands every Thursday. This factory and Horne & Son's large tannery makes quite an addition to the business of the place.

—The Whig states that Mr. S. A. Maxfield has just made one of the largest sales of unwashed wool ever made in this market. The amount was 140,000 pounds, or between 700 and 800 sacks of wool, the last of which he is now shipping by rail. The sale was made on the spot to a Boston party at a price not stated, but satisfactory to the seller.

—Mr. Henry Moulton, the well known ladder manufacturer at York, is about to enlarge his business at that place, and also intends building a large ladder manufactory in Somerville, Mass., the coming summer. Mr. Moulton is probably the oldest and most experienced ladder manufacturer in the country, and enjoys the reputation of producing the very best article in his line to be found anywhere.

—The Portland Packing Company are erecting a large corn canning factory at Wells, which will give employment to about 200 men, women and children the coming season. The building will be 135 feet long by 60 feet wide, and will be completed by the first of May. The company intend to put up 700,000 cans at this factory during the season. Eight men are at present engaged in making cans, of which 75,000 have already been turned out.

—Parker & Young, of Lisbon, N. H., are now doing a \$50,000 business annually in the manufacture of sounding-boards, bridges, bars and rails for pianos, 20,000 sounding boards alone being manufactured last year, Canadian spruce being used for the boards, which go to the Eastern and Middle States, Canada, England and Germany. The manufactory is four stories in height, 45x102 feet, with an L 25x48 feet, and a 25x50 foot saw mill adjoining. Thirty-five men are employed, the pay roll reaching \$1500 a month.

—The distribution of salmon eggs in Maine waters is completed for the present season. The State Fish Commissioners this year had at their disposal 1,080,000 salmon eggs, and, in addition to this, received from the United States Commissioner two lots, one of 50,000 and the other of 67,000. The amount then which could be distributed was nearly 1,200,000, and these have been placed at the respective hatching spots on the rivers of the State. The eggs for the Penobscot were deposited at Enfield, for the Kennebec at Moosehead Lake, for the Androscoggin at Rangle Lakes, for the Presumpscot at Norway, and for the St. Croix at Grand Lake Stream.

—Lewiston is sure of a big gain in her spindles this summer, as the Bates Mills have already ordered 12,000 spindles to go into the extension of No. 1 mill, on which work will be commenced as soon as the weather will allow. The next thing will be the extension of the No. 2 mill, and 12,000 more spindles, there. It is the design of the company to increase its number of spindles to a round 100,000, making it one of the greatest cotton manufacturing companies in New England. This is the

equivalent of building a new mill, and insures a lively business year for Lewiston. To have the blues this spring, a Lewiston business man must be perverse.—[Journal.]

—The Grafton County Lumber Company, of which the Messrs. Saunders of Lowell and Lawrence are the principal stockholders, own 60,000 acres of heavily timbered land among the White Mountains, a large part being contained in the town of Livermore, N. H., where the company's mills are located. The company own two miles of track connecting their mills with the Portland & Ogdensburg railroad, and also four miles of lumber road leading into the woods. At the present time two locomotives are kept busy night and day, and two gangs of men are employed transporting lumber. Over 300 men are employed, the employees and their families making up the population of the town—about 500. About 12,000,000 feet of lumber will be sawed the present year. William G. Hall of Plymouth, N. H., is the clerk and resident manager of the company.

CRANBERRY CULTURE.—In many localities in the town of Sedgwick cranberry culture has become a profitable source of revenue to the farmers. The picking is usually done on shares and generally takes a fifth or a sixth of the entire product. John P. Carter, near the steamboat wharf, has raised as high as 150 bushels in one season. Moses Friend, his neighbor, shipped 75 barrels, besides paying the pickers, in 1880, and has large lots of land set with vines which have not yet come into bearing. Byron Ford, in the same district, has an average annual yield of about 40 bushels and is preparing to set two more acres with vines, for which he has excellent facilities. Wm. A. Friend, on the Blue Hill road, shipped 41 barrels in 1880 beside paying for harvesting. Last season was a bad one for the crop on account of June frosts, but Moses Friend shipped 43 barrels, taken from vines which were at the time protected by water. Kittredge Hooper and others in different localities in the town have more recently commenced planting vines with good results from those which have reached bearing condition.

Shipbuilding Notes.

Business at the shipyards in Bath is driving. Goss, Sawyer & Packard have four vessels on the stocks, one a ship of 1,400 tons, for W. H. Starbuck and other parties in New York; the keel is laid and the frame partly up for a steam whaler of 400 tons, for Wm. E. Lewis, of New Bedford; the keel is laid for a schooner of 700 tons, for Capt. Burt and others of Taunton, Mass.; the keel is also laid for a schooner of 700 tons for Capt. Theo. D. Anderson and others of New York; work is also progressing on the City of Richmond repairing on the marine railway. The firm of Arthur Sewall & Co. are building one ship of 1,600 tons; they have also just laid the keel for a schooner of 520 tons. Goss & Sawyer have a ship of 2,000 tons contracted for W. H. Besse, Capt. Jacob Merriman, the builder and others; a schooner of 625 tons building for Capt. Potter, of Orient, L. I., and others; a schooner of 1,100 tons for Capt. Jacob Phillips and others, of Taunton; also a schooner of 350 tons, owned by the builders, Capt. Arey, of Rockland, and others. William Rogers is building a ship of 1,575 tons; also has a schooner of 550 tons. Deering & Donnell have a schooner of 500 tons on the stocks; they have a schooner of 120 tons for Benj. Maddox, of Gloucester; they also have laid the keel of a fishing schooner of about 135 tons for parties in Rockport, and have the frame for another of 500 tons in the yard. Benj. Flint is building a ship of about 1,900 tons. B. W. & H. F. Morse have a schooner 143 feet long, 54 wide and 12 deep, which will be ready for use in about three weeks. Augustus Palmer also has a schooner of 200 tons. Messrs. Goss, Sawyer & Packard and Goss & Sawyer have five frames now being cut in Canada, one of which is for a ship of 2,200 tons, and W. C. Manning brought 18 cars of fine timber, from near Quebec, to Goss, Sawyer & Packard and Sewall & Co., the past week.

At East Boothbay, Hodgdon Bros. are building three schooners; W. Adams & Son have one schooner of 130 tons on the stocks and another soon to build; McDougall & Son have concluded a contract with Gloucester parties to build a 110 ton schooner; J. G. Fuller has engaged to build a 600 or 700 ton schooner for Massachusetts parties; six or seven vessels are also undergoing or awaiting extensive repairs.

Haynes, of Wiscasset, has been cutting the frames of three schooners.

Haggett & Co., Damariscotta, will build a large ship this summer.

At Thomaston, the carpenter work on schooner "Seventy-Six" is about completed, and the painters and riggers are finishing her up; Dunn & Elliott will begin at once on their new vessel.

At Camden, H. M. Bean has a large schooner partly timbered

out and will commence on another soon; Mr. Bean advertises for fifty ship carpenters.

At Milbridge, E. Dyer will build two tugboats, to be used in the sardine business; Mr. Dyer is also building a schooner of about 140 tons, for Capt. D. J. Strout; also one of about 75 tons for Capt. L. G. Means; Joel Hinckley has sold his vessel on the stocks to Capt. Albert Brown, of East Machias. In addition to the above probably five more coasters will be built here this spring.

The Machias Republican says coasting vessels are in active demand in that vicinity, and several schooners belonging at East Machias have been sold this spring at good prices.

An Important Maine Industry.

THE CANNING OF VEGETABLES, FRUIT, MEATS AND FISH—THE SARDINE INDUSTRY.

[Correspondence to the Boston Journal.]

AUGUSTA, Feb. 21.

The packing or canning business in Maine is getting to be one of great importance, furnishing business for many men and women, and bringing a large sum of money into the State annually. It will readily be seen that a large amount of labor necessarily enters into the production of canned goods. In the canning of corn there is, first, the raising by the farmers, the drawing to the factory, followed by the husking and the other operations in canning. Then there is the making of cans, boxes for packing, etc., besides the erection of the buildings occupied. In the canning of fish, lobsters and clams, there is the catching to be added to the packing, and the transportation connected with the business is very large, making business for the steamboat lines and railroads in shipping supplies to the scenes of operation and the products to market.

In preparing this article, the original intention was to get facts and figures from all parties in the State in this line of business. In some cases the inquiries were promptly and definitely answered, but in a majority of cases were without success, so that the account must necessarily be incomplete.

THE LEADING INTERESTS.

The Portland Packing Company, a corporation composed of live business men of Portland, is doing the largest business of any concern now in the State. In addition to its Maine business, the company has ten factories in Nova Scotia and one in Newfoundland. The capital invested is \$350,000. In this State the company has one factory in Portland, where 160 men are employed five months of the year packing meats; it has corn canning establishments at Cumberland Mills, Stroudwater, Gorham, Sebago Lake, Naples and Fryeburg, and are erecting others at Wells and Winthrop, each of which gives employment to from 300 to 375 persons, including farmers, during the packing season—six weeks in each year—and 55 men seven months in each year making cans for these factories and for the lobster and other fish canning establishments at Prospect Harbor, where 135 men are employed three months of the year; Hammond's Cove, where 75 men work three months, and at Burnt Cove, where 75 men work five months of the year. Thus it will be seen that this company gives employment to 235 men five months, 210 men three months, 55 men seven months, and 2,650 men six weeks in each year in the State; also 1,625 men three months and 36 men four months in each year at various places in Nova Scotia and Newfoundland. The value of the company's product for 1881 was \$500,000.

Burnham & Morrill, of Portland, have \$250,000 invested in the packing business. They have factories at Portland, Scarborough, Minot, East Baldwin, South Paris, Denmark and Jonesport in Maine, and at Caribou, Brule, Crow Harbor, Port Clyde and Harrigan Cove in Nova Scotia. The articles canned are corn, succotash, beans, lobsters, clams, mackerel, and all kinds of meats, poultry and vegetables. The company contemplates the erection of corn factories in Maine and lobster factories in Nova Scotia next year.

The Milbridge Packing Company has factories at Milbridge and Eastport. The capital invested at the former place is \$45,000, the number of hands employed 250, and the value of the product for the year 1881, \$84,000. The products of this factory are American sardines in oil, mariner sardines, mustard sardines, mackerel and brook trout. This company intends to build another factory at Milbridge this season, of about the same capacity.

J. & E. A. Wyman, of Milbridge, have a factory at which they give employment to 40 hands. They have \$20,000 invested and their product for 1881, including packing, was \$45,000. Lobsters, mackerel and clams are the articles put up.

Underwood & Co., of Jonesport, employ 100 hands; have \$10,000 invested, and their product for the year 1881 was valued

at \$50,000. The articles packed are lobsters, berries, clams, mackerel and sardines.

R. W. Soule, of Readfield, started a small business at that place as an experiment last year. He employed 30 hands, invested \$3,000, and the value of the first year's product was \$3,500. The result was so satisfactory that Mr. Soule will extend his business the coming season. The past year he canned corn only. The coming season he proposes to can corn, apples, pumpkins, squash, etc., and erect an apple evaporating establishment.

SARDINE FACTORIES.

There are eighteen sardine factories at Eastport, four at Lubec, one at Robbinston, three at Jonesport, one at Milbridge and one at Lamaine. This business had its origin but five years ago in a small shop in Eastport; now the business gives employment in the factories alone to 1200 men, women and children in that one town, and in the other towns in the same ratio. The principal companies and parties engaged in the business are: The American Sardine Company of New York, R. C. Green & Co., T. L. Holmes, Warren Brown, McLean & Abrams, Young & Stimpson, Wolff & Reessing, J. S. Buck, C. H. Dyer, P. M. Kane, Wiram Blanchard, and E. F. Holmes, of Eastport; New England Packing Company, Dodge & Lawrence, Brown & Brawn, and H. Comstock & Co., of Lubec; Hart & Balcom, of Robbinston; Wolff & Reessing, of Milbridge. The capital invested, hands employed and value of the product of this branch of the packing business cannot be stated even approximately. For some reason the proprietors are generally disinclined to give information in regard to the business transacted at Eastport, but it is quite extensive and supposed to be profitable. The larger concerns ship and market their own product, but the smaller have for the past two years sold at their factories to Messrs. Wolff & Reessing, who ship their goods to New York and Boston.

The Eastport Sentinel estimates the value of the product of factories in that vicinity the past season at \$1,000,000, the quantity being about double, but the price was not much above one-half that of the previous years.

OTHER COMPANIES.

The Castine Packing Company is doing a large business, principally canning lobsters in their season, but also using meats and vegetables.

These are but a part of the canning establishments along the coast. Others could be mentioned, but failing to get definite information in regard to capacity, etc., they are omitted. The packing of fish is roughly estimated at 1,500,000 cans of lobsters, 750,000 cans of mackerel and 250,000 cans of clams annually.

J. Winslow Jones has been a conspicuous party in the corn canning business in the State, and the failure of his company in January gave the business a "black eye" for a time. The company had fifteen corn and five lobster factories in the State and fourteen lobster and salmon factories in the Dominion. The assets of this company two years ago, when the corporation was organized, was \$599,000. Eight new factories were built during the year 1881 at a cost of \$55,000. The causes of the failure were given as lack of capital, the erection of the new factories and the manufacturing of cans worth \$20,000 more than were required for the short crop of corn of last year. The indebtedness of the company was largely in New York, Boston and Portland, but the worst feature of the failure is the indebtedness to farmers all over the State where the factories are located. The amounts to each individual farmer is not large but the tendency will be to discredit the business and cause farmers to turn their attention to other crops.

There are fifty-five corn canning establishments in the State, the product of which for 1881 is estimated to be about 11,500,000 cans; valued at not far from \$1,000,000.

THE FUTURE OF THE BUSINESS.

The question naturally arises as to the probabilities of this industry in the future. The Jones factories will very likely be operated by somebody, even if the old company does not get on its feet again. The Portland Packing Company is building at Winthrop and Wells, Burnham & Morrill anticipate erecting other factories, and as the sales the past year have been favorable, there may be other parties now engaged in the business who will feel like extending their operations. If the season should be favorable, it is reasonably safe to say that the product will exceed that of last year, unless the Jones suspension shall prove to have a demoralizing effect upon those farmers who have been engaged in raising corn. It has been somewhat difficult to get sufficient corn raised for the factories in operation. Last year, Jones & Co. could have handled considerably more than they did get, or were able to get, and this was one cause of their embarrassment. The crop pays farmers but about \$30 to the acre, when the yield is good. There are advantages arising from the value of the fodder that help out, and if prop-

erly packed in silos it is very valuable for stock. Many farmers are experimenting in this matter. The ultimate success of this important industry depends entirely upon the problem whether packers can afford to pay enough for the corn to enable farmers to engage in raising it extensively. If the crop can be made to pay as well or a little better, all things considered, than other crops, the number of factories could be easily doubled so far as their being sustained by farmers is concerned, but if the value of the crop per acre is even a trifle below that of other crops, farmers will not long continue to raise corn for canning. The failure of the sugar beet industry in Maine demonstrates this.

There is, however, little reason to doubt but the canning business is being established on a firm basis in the State, and will be, for many years to come, a growing industry.

Railroad and Steamboat Notes.

....Steamer Henry Morrison will go on the Rockland & Blue Hill route April 1st.

....Steamer Mount Desert will commence running between Rockland, Mt. Desert and Sullivan March 25, making one trip a week until further notice.

....Steamer City of Portland, of the International Line, having received thorough repairs, went on her route the first of the present week. The Falmouth is hauled off at Portland for repairs.

....Subscriptions to the stock in the new railroad to run from the Boston & Maine R. R. station in Kennebunk to Kennebunkport, are coming in rapidly. It is thought the entire amount will be taken up at once.

....The Portland Company will deliver two locomotives to the Northern Pacific Railroad the present week. They will be sent by rail to New York, thence shipped by vessel around Cape Horn to the Pacific Coast.

....The Maine Central Railroad Company have recently purchased in Russia some forty-five hundred tons of steel rails. This large lot will be enough to lay about forty-five miles of track, and we learn from Road Master Terry that about forty miles of this amount will be laid on that portion of the road between Burnham and this city.

....Mr. William R. Lavender, for some time past New England agent of the Associated Railroad Lines, has been offered the position of general travelling agent for the Eastern Railroad, left vacant by the resignation of Geo. F. Thompson, who is to assume the management of Hon. Frank Jones' two famous hotels—The Rockingham, at Portsmouth, and The Wentworth, Newcastle.

....It is understood that the Bangor and K. I. Works Railway Co., having obtained all the funds required for present uses, have stopped the sale of their bonds for the present. All the bonds sold have been placed at par and accrued interest, a fact almost or quite unparalleled in the history of a new railroad enterprise, and speaking volumes for the sagacity and business capacity of the Directors of the road.

....Col. Joseph N. Greene, William E. Tanstor, Thos. Barry, Charles N. Skinner, Hugh A. Glasgow and Hugh H. McLean are in Ottawa seeking incorporation under the name of "The Canada and St. Stephen Railway Bridge Company" with a capital of \$1,000,000, for the purpose of constructing and maintaining a railway bridge across the St. Croix from St. Stephen, N. B., to Calais, Me. The plans are to be approved by the Governor and Council before commencement of the work. All railways are to have equal rights in running trains over the bridge.

....The Rockland Courier-Gazette says:—A few of our capitalists are looking into the matter of building a narrow gauge railroad between this city and Liberty, which of course would include Union, Hope and Appleton as way stations. It is understood that a good road can be built for about \$4,000 a mile. Such a road would open up a fine country. Liberty contains about 1000 inhabitants, does a large amount of manufacturing, and its townsmen are willing to subscribe a good share of the capital, so says the Local, a newspaper published there. The three towns in this county, through which a railroad would be likely to run, are manufacturing towns and would furnish their share of the freight. The narrow gauge between Farmington and Phillips has been a most successful one, and Phillips contains but a little more than 1,400 inhabitants.

***We have received the Seventeenth Annual Catalogue of the Massachusetts Institute of Technology, which shows that useful institution to be in a highly flourishing condition.

Hotels and Summer Resorts.

W. Scott Knight has bought the Chapin House, Monson, and will soon take possession.

The Montreal House, Old Orchard, will be managed by Mrs. A. B. Blanchard the coming season.

The Preble House, Portland, is to be enlarged by the addition of a new wing, 70 feet long, to accommodate the working department.

Portland parties have leased a lot of land near the Boston & Maine R. R. station at Old Orchard and will erect a large skating rink this season.

The new Fiske House, at Old Orchard Beach, will cover the site of Mr. Fiske's former hotel and also that of the St. Cloud, which adjoined it. The house will be large and well arranged.

The popular Carleton House, at Rockport, will be managed the coming season by Mr. Drummond, the former head clerk under Mr. Nutter, who has recently assumed the management of the new St. Nicholas, at Rockland.

The Globe Hotel, in this city, will open April 3d, under the management of Mr. Albert W. Thayer, with Mr. George S. Pomeroy as clerk. Mr. W. M. Thayer is said to be negotiating for a hotel at a popular summer resort.

Still more exciting news comes from Prince Arthur's Landing of the new silver discoveries on Pie Island, Lake Superior. Prof. W. R. Smith, a Leadville expert, has made a highly favorable report upon the Pie Island Mine.

Old York, now a village of about 2000 inhabitants, was originally called Agamenticus. It was a city for ten years, having received a charter from Sir Ferdinando Gorges in 1641, under the name of Georgeanna. Thomas Gorges was its first mayor.

The Lawrence House, Old Orchard Beach, destroyed by fire last fall, is being rebuilt upon a new lot by Mr. E. W. Barton, of Lawrence, Mass. The building will be 110 by 50 feet, and is to have all the modern improvements, including gas, electric bells, etc.

The Lynde Hotel, Rockland, which was closed for extensive repairs several weeks since, was opened to the public under the new name of "St. Nicholas" on Monday of last week. The house has been thoroughly renovated and refurnished and is under the management of Messrs. Bird & Nutter.

The Highland House, Biddeford Pool, was totally destroyed by an incendiary fire on Monday last. The house was three stories high with a French roof, 100 feet long in front, with two wings running back—one 160 feet and the other 140 feet—and was valued at \$45,000; insured for about \$37,500. It was owned by Mr. Martin Starkweather, of Boston, and was to have been managed the coming season by Mr. C. O. Chamberlain, also of Boston.

The American Palace Hotel, to be erected on the Victoria embankment of the Thames, London, between the river and the Palace of Whitehall, is to be nine stories high and will accommodate 1300 guests. It is to be managed by Leland, of the Delevan House, Albany, N. Y.; the waiters and barkeepers will also be Americans. The idea originated with wealthy Englishmen who have taken a liking to American hotels, and the required capital, £400,000, or \$2,000,000, was furnished by them. The Americans who visit London can amply support it, but Englishmen who have visited this country will be sure to patronize it.

Nuggets.

***Portland has over fifty miles of sidewalks, and only 454 street lamps.

***Messrs. Jordan, Marsh & Co. are to open a branch of their Boston House at Portland.

***The submarine cable between Grand Manan and the mainland is again in working order.

***The Penobscot Agricultural Society will hold its annual meeting in Bangor on March 25th.

***Brunswick has voted to erect a town building and a soldiers' monument, at a cost not exceeding \$40,000.

***The Penobscot Savings Bank will move into their new quarters over the Kenduskeag National Bank about April 1st.

***T. Brigham Bishop & Co., the enterprising brokers, have opened branch offices at Lynn, Lawrence and Haverhill and con-

needed them by special telephone with the Boston office, 141 Devonshire street.

*A very massive and rich specimen of copper sulphurets has been exhibited in Bangor this week. The locality from whence it came has not as yet been announced.

*The recent explosion of the Fairfield death-trap furnishes a text for warning against the carelessness of over-economy in running honey-combed boilers. General demand is made for a system of boiler inspection.

*A fraudulent advertisement in a New York paper, stating that Cyrus W. Field wanted fifty men at the corner of Lexington avenue and Twenty-first street, caused a crowd of 200 men to assemble at that point, on Saturday last. Dispersed by the police.

*A spruce tree was recently cut on township No. 11, Range 14, in this county, that measured 44 feet in length, 30 inches in diameter at the top, and scaled 2,080 feet. A pine was also cut on the same tract that gave eight tons and 100 feet of timber.—[Houlton Times.]

*Patents issued to Maine inventors under date of March 7th, 1882, reported for the MINING JOURNAL by Wm. Franklin Seavey, Solicitor of Patents, Bangor: Edw. Robinson, Deering, Music Leaf Turner; Benj. J. Willard, Portland, Life Preserver; Sam'l N. Silver, Auburn, Motor. No Maine patents issued for Feb. 21st or 28th.

*The Saskatchewan Forks Colonization Company has been organized at Ottawa for the purchase, for speculative purposes, of a large tract of land at the Forks of the Saskatchewan, in the Northwest Territory. The Company is officered entirely by members of the Dominion press, and the stock will be controlled and held exclusively by journalists.

*At the annual meeting of the Bodwell Granite Company, held at Augusta on March 7th, the following officers were elected for the ensuing year: President, J. R. Bodwell; Vice-President, Moses Webster; Treasurer, Francis Cobb; Secretary, E. H. Lawry; Directors, J. R. Bodwell, Moses Webster, Geo. M. Brainard, E. P. Walker and H. W. Wight.

*Carefully prepared statistics show the number of men engaged in the Gloucester fishing fleets the past year, was 4,142. Divided as follows: Georges fleet, 1,460; Western Bank, 284; Grand Bank, 360; Fresh halibut, 330; Mackereling, 1,120; Shore fishing, 430; Dory fishing, 125; Trap fishing, 24. This does not include the crews of vessels from other ports.

*At the meeting of the Appalachian Mountain Club, held recently at the Institute of Technology building, in Boston, it was announced that there would be a walk for members of the club on May 20, and an excursion which would include June 17. The address of the evening was given by Prof. G. L. Vose on "The Relation of Mountains to the construction of Railways."

*There is to be exhibited in Boston, within a short time, a machine which originated in Scotland, that is said to accomplish wonders in cutting stone. A bit of our hardest granite of any size can be shaped with the ease that a cheese yields to the manipulations of a knife. Boston parties have an interest, and granite cutters particularly will be interested in this new invention.

*The lists for the California excursion are more than half filled, and parties in this vicinity who think of going should make early application to Wm. E. Brown, of this city. This will be an excellent opportunity to visit friends in San Francisco, as the party stop in that city ten days, and any person wishing to leave out the Yosemite trip can stop in San Francisco nearly a week longer and the expense of the excursion will be fifty dollars less.

*Maine ranks in the forty-six States and Territories in the productions named, as follows: Sheep, 17; Milch cows, 23; Horses 29; Oxen and other cattle, 33; Hogs, 34; Buckwheat, 4; Potatoes, 8; Barley, 9; Hay, 10; Oats, 23; Corn, 32; Iron and steel, 22; Miles of railway, 28. The annual crops are valued: Corn, \$1,140,241; Wheat, \$517,338; Hay, \$13,689,852; Oats, \$1,082,542; Potatoes, \$2,702,522; Barley, \$516,857; Rye, \$37,048 and Buckwheat, \$272,159.

*"Industrial Progress in Gold Mining" is the title of a book of over one hundred pages, published by the Mears Chlorination Company of Philadelphia. It treats in an able manner of the "Gold Areas in the United States," "The Geological Occurrence of Gold," "Auriferous Veins," and "The Present Condition of Gold Mining." It also describes the Mears Chlorination Process for gold ores. A reduction of more than one-half in the expense of treating ores is claimed for this process.

*At a dinner given in Philadelphia, on Tuesday evening of

last week, to President Gowen of the Reading Railroad, at which the invited guests included William H. Vanderbilt, Augustus Schell, Samuel Sloan, Thomas Dickson, and George A. Hoyt, one of the pieces on the table was in the form of a locomotive. At the proper time the whole interior of the engine was drawn out, disclosing the fact that the boiler was charged with Roman punch as a motive power, and a glance at the tender showed that instead of coal it was freighted with little imported cigarettes, made of the most fragrant tobacco.

*At the twenty-eighth annual meeting of the Penobscot Lumbering Association, held at the Penobscot Exchange in this city on Tuesday of last week, the old board of officers were re-elected, as follows: President, Hon. Wm. B. Hayford; Directors, Charles G. Sterns, J. W. Palmer, Eben Webster, John Morison, John P. Webber and Joseph M. Hodgkins; Abram Moor, Clerk and Treasurer. At a subsequent Directors' meeting, the rafting of the logs at the boom for the ensuing year was put up at auction and bid off by Daniel Lunt at 39 5-8 cents per thousand feet. The price last season was 35 cents, and the number of logs rafted amounted to 160,000,000 feet, this amount being larger than for several years and will not be reached the present season.

*The Mattawamkeag Log Driving Company held its annual meeting in this city on Tuesday. The election of officers resulted in the choice of the following: President, Hon. Wm. B. Hayford; Clerk and Treasurer, Abram Moor; Directors, Eben Webster, John P. Webber and James Webster. In the afternoon the driving of the logs down the Mattawamkeag this spring was sold at auction and was bid off by E. & J. F. Webster at prices ranging from 20 to 13 cents per thousand from different points for the first drive, and 25 to 15 cents for the second drive. During last season there were rafted through the boom 45,000,000 and about 5,000,000 remained behind in the boom. It is expected the Mattawamkeag drive this season will be about 40,000,000.

*The Harbor Master's report for the season of 1881, recently submitted to the City Council, contains the following statistics: The port of Bangor opened to navigation on March 20th and closed January 2d, thus remaining open 288 days, during which time 2057 vessels of all classes arrived. Of this number 21 were steamers, 2 ships, 6 barks and barkentines, 22 brigs and the remainder schooners. The total tonnage of vessels arriving was 389,764 tons. The number of foreign arrivals was 18 and the number of foreign clearances 34. Imports during the season were as follows: Salt, 31,124 bushels; molasses, 626 hhd; flour 584 bbls; corn, 460,185 bushels; coal, 29,948 tons; lime, 6,375 casks; nails, 6,305 kegs; potter's clay, 225 tons; lime rock, 679 tons; granite, 490 tons; pig iron, 990 tons; cement, 3,249 casks; kerosene oil, 3,526 bbls; granite pavement blocks, 32,749.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 15, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Anouez.....	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3
Atlantic L. S.....	14	14 1/2	14 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2	13 1/2	14 1/2
Atlas.....	...	...	...	...	...	...	...	...	...	...	...	...
Blue Hill Copper.....	...	...	...	...	...	...	...	...	...	...	...	...
Brunswick.....	11	13	10	13	10	13	11	13	10	13	11	13
Calumet & Hecla.....	230	...	230	235	230	231	231	230	232	230	232	231
Catalpa.....	50c	62 1/2c	50	75	57 1/2c	50c	50	75	50	75	50	75
Central.....	...	...	...	...	...	...	...	...	...	...	...	...
Copper Falls.....	...	...	...	...	...	...	...	...	...	...	...	...
Contentment.....	...	...	...	...	...	...	...	...	...	...	...	...
Douglass.....	...	...	...	...	...	...	...	...	...	...	...	...
Dana.....	...	...	...	...	...	...	...	...	...	...	...	...
Duncan Silver.....	7 1/2	7 1/2	7 1/2	7 1/2	...	...	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
Empire.....	...	...	...	...	...	...	...	...	...	...	...	...
Franklin.....	9	9 1/2	10	11	10	10 1/2	10	10 1/2	10 1/2	10 1/2	10 1/2	10 1/2
Harshaw.....	3	3 1/2	2	3	2 1/2	3	2 1/2	3	2 1/2	3	2 1/2	3
Huron.....	2	2 1/2	2	2 1/2	2	2 1/2	1 1/2	2	1 1/2	1 1/2	1 1/2	1 1/2
Hanover.....	...	...	...	...	...	...	...	...	...	...	...	...
Humboldt.....	...	...	...	...	...	...	...	...	...	...	...	...
International.....	...	...	...	...	...	...	...	...	...	...	...	...
National.....	2	2 1/2	2	2 1/2	2	2 1/2	1 1/2	2	1 1/2	2	1 1/2	2
Oscoda.....	31	32	31 1/2	32 1/2	31	32	31	32	31	32	31	32
Pewabic.....	10 1/2	11 1/2	12	12 1/2	11 1/2	12	12	12 1/2	12	12 1/2	12	12 1/2
Phoenix.....	...	...	...	...	...	...	...	...	...	...	...	...
Pontiac.....	...	...	...	...	...	...	...	...	...	...	...	...
Quincy.....	42	43	43	44	43	44	44	45	44 1/2	45	45	45 1/2
Ridge.....	17	18	17	18	17	18	17	18	17	18	17	18
Silver Islet.....	15	19	20	21	20	22	20	23	20	21	15 1/2	20
Star.....	...	...	...	...	...	...	...	...	...	...	...	...
Sullivan.....	1 1/2	1 1/2	1 1/2	1 1/2	1	1 1/2	1	1 1/2	1 1/2	1 1/2	1	1 1/2

PALACE CAR TOUR TO CALIFORNIA

Leave Boston April 17th, 45 days' tour, visiting the principal places along the route. Price will include travel, hotels, guides, etc. For circulars address,

WM. E. BROWN, 21 Main Street, Bangor.

SPECIAL NOTICE

— TO —
Manufacturers,
Merchants,
Miners, and
Capitalists.

THE MAINE MINING JOURNAL, hitherto devoted mainly to the mining interests of the New England States and Provinces, will in the future introduce other departments covering the

Railroad, Manufacturing, and such other INDUSTRIAL INTERESTS as may assist in the developing and building up of the State of Maine and Provinces.

The natural advantages of this section as a manufacturing center are not excelled by any other district in the country. It has most

Magnificent Water Powers, and easy communication by water and rail with the principal markets of the world.

THE MINING JOURNAL will lend its aid toward the development of these vast and varied resources, and will endeavor to furnish fresh and reliable information relating to the manufacture of

Cotton and Woolen Goods,
Boots and Shoes, Canned Goods,
Bricks, Lumber, Paper, Etc.,
the Quarrying of

Granite, Marble, Limestone,
and the Mining of

Gold, Silver, Copper, Tin, Lead,
Iron, Etc.;

and it will be our aim to bring the merits and advantages of these various enterprises to the attention of capitalists.

If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

Agents wanted. For terms, address
THE MAINE MINING JOURNAL,
BANGOR, MAINE.

BECKWITH'S GUIDE — TO THE — Great Mineral Districts

— OF —
NEW MEXICO.
Gives the most accurate description of the country and its mineral wealth yet published. Single copies, 10 cents. Special rates to dealers. Address:
D. A. BECKWITH, Socorro, N. M.

NEW MEXICO
— IS THE —
Future Great Mineral District
OF THE WORLD,
And if you would learn all about its mineral wealth subscribe for the

SOCORRO MINER,
Weekly and semi-Weekly,
Terms—Weekly, \$3.00 per year; 6 mos., \$2.00
Semi-Weekly, \$5.00 per year; 6 mos., \$3.00
Invariably in advance.
Address, D. A. BECKWITH,
Socorro, New Mexico.

FOR SALE.
The Valuable Property known as the Bakeman Estate,
IS OFFERED FOR SALE.

Price, - \$40,000 cash.
The property consists of over 500 acres of mineralized land, adjoining the celebrated Cape Rosier Mining property, and is acknowledged by the most celebrated experts of this country to contain, not only the continuation, but the richest part, of the Cape Rosier veins.
George H. Blake, No. 93 Exchange Street, Portland, Maine, is the sole agent in charge of this property, to whom all communications may be addressed.

THE COST OF ADVERTISING.

For any responsible advertiser, making application in good faith, we prepare and furnish a written estimate, showing the cost of any proposed advertising in the leading Newspapers of the United States and Dominion of Canada.

We prepare and exhibit printed proofs of any proposed advertisement.

For the preparing of estimates no charge is made, and the applicant is placed under no obligation to transact his advertising business through us unless it appears to him that by doing so he will best advance his own interests.

A copy of the advertisement, a list of the papers, the space the advertisement is to occupy and the time it is to appear, should all be given with the application for an estimate of the cost.

When an advertiser does not know what he wants or what he ought to do, he can designate some sum of money within which he wishes to limit his expenditure; this will enable us to prepare for him such a list of papers as will be the best for his purpose, within the limits which he prescribes.

Send 10c. for 100-page pamphlet. Address

GEO. P. ROWELL & CO.
Newspaper Advertising Bureau,
(Printing House Square. Opposite Tribune Building.)
10 Spruce St., New York.

THE Daily Graphic

Has the best Financial and Mining News of any paper in New York.
Terms, \$12 per Year, Postage Paid.
Address, THE DAILY GRAPHIC,
New York, N. Y.

Bucksport and Bangor R. R.

CHANGE OF TIME, Feb. 20, 1882.

	A. M.	P. M.
Leave Bucksport,	5.30	5.00
Arrive Bangor,	6.42	6.05
Leave Bangor,	7.35	7.15
Arrive Bucksport,	8.45	8.25

A mixed train leaves Bangor at 11.00 A. M. on Mondays, Wednesdays and Fridays.
Leaves Bucksport Tuesdays, Thursdays and Saturdays, after arrival of steamer.
The 5.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.
STAGE CONNECTIONS.—at Bucksport, daily, for Blue Hill, Ellsworth, Penobscot, Castine, Sedgwick and Brooksville.
L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this line will leave Franklin Wharf, Portland, at 7 P. M., and India Wharf, Boston, at 5 P. M., daily. (Sundays excepted.)
CONNECTIONS are made at Portland with GRAND TRUNK, PORTLAND & OGDENSEBURG, MAINE CENTRAL, KNOX & LINCOLN Railroads, and with Steamers of the BANGOR & MACHIAS LINE; and at Boston with all lines for points South and West.
Tourists will find this one of the finest OCEAN TRIPS on the New England coast.
WM. WEEKS, J. B. COYLE, JR.,
Agent, Boston. Gen. Ag't, Portland

Boston, Portland and Machias

EXPRESS.

After the First of November the undersigned will attend to such Express matters as may offer between Machias and Portland direct and to Boston via Sanford Line of Steamers from Rockland.
Good connections throughout New England, and to all points West and South.

Main Offices: 75 Kilby Street, Boston, and 65 Exchange Street, Portland.

Business solicited and prompt attention guaranteed at fair rates.

GILBERT, CRANDON & CO.

BANGOR AND BLUE HILL STAGE NOTICE.

On and after December 1st, 1881, there will be only one Stage a day between Bucksport and Blue Hill. Stage leaves Bucksport at 9.30 A. M., or on arrival of morning train from Bangor.
Stage leaves Blue Hill at 12 M. to connect with 5 o'clock train for Bangor.

HILL, GOOGINS & CO.
Bucksport, December 1st, 1881.

ROBINSON HOUSE
Livery, Hack and Boarding Stable,
MAIN STREET, BUCKSPORT, ME.

HILL, GOOGINS & CO., - Proprietors.
Good reliable horses for ladies' and family use, furnished to order. Hacks for pleasure parties or funerals. Come and see us and the prices will be all right. Orders left at the Robinson House and Stable.

PENDLETON HOUSE

Blue Hill, Me.
IS NOW OPEN TO THE PUBLIC
Livery Stable connected with the House.

JOHN M. MERRILL, Proprietor.

ROBINSON HOUSE,

Bucksport, Me.

J. F. MOSES, - Prop.



A RELIABLE REMEDY FOR ALL DISEASES OF THE SKIN, SUCH AS TETTERS, PIMPLES, SORES, BLOTCHES, RASH, ERYSIPELAS, RINGWORM, BARBERS' ITCH, REDNESS OF NOSE AND FACE, BURNS, CUTS AND SCALDS.

Sweeney's Ointment

OF THE SKIN CAN REGIST THE SOOTHING AND HEALING POWER OF SWAYNES' OINTMENT.

ON ACCOUNT OF LAYING THE INTENSE ITCHING AND INSURING SWEET REPOSE, IT IS KNOWN BY MANY AS THE GREAT CURE FOR ITCHING PILES.

DR. SWAYNE & SON, PHILA.



SOLD BY ALL DRUGGISTS.

WELL BORING, ARTESIAN WELL DRILLING & MINERAL PROSPECTING MACHINERY and how to use, is fully illustrated, explained and highly recommended in "American Agriculturist," Nov. No., 1879, page 465. Send for it. Portable, low priced, worked by man, horse or steam power. Needed by farmers in every county. Good business for winter or summer and very profitable. Makes wells in earth or rock anywhere. We want the names of men that need wells. Send stamp for illustrated price list and terms to Agents, Pierce Well Excavator Co., 59 Bece Street, New York, U. S. A.

ESTABLISHED 1846.
THE BANKER'S MAGAZINE.
Monthly, Five Dollars per year.
THE BANKER'S ALMANAC AND REGISTER,
Semi-annually, \$3; Singly, \$2.
B. HOMANS, Editor and Manager, 251 Broadway New York.

PIANOS!
JUST RECEIVED.

Chickering & Sons Pianos,
Six different styles; the finest assortment ever received in the State of Maine.

The metallic upright action is the best in the world.
IVERS & POND PIANOS!
One 7½ octave square; one 7½ octave upright.

EMERSON PIANO CO.,
One 7½ octave upright; three 7½ octave squares.
A full stock of

WILCOX & WHITE
ORGANS

All new and the best in the market, ranging in price from \$75.00 to \$900.00 each.
Sheet Music and Musical Instruments.
Now is your time to get first-class new goods; write or call for prices and terms.

A. M. DEVEREUX,
MASONIC BLOCK,
Main Street, Bangor, Maine.

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Counsellor & Attorney at Law
BLUE HILL, MAINE.
Special attention paid to Mining titles and rights.
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BLUE HILL, MAINE.

JAMES G. FOSTER, C. C. WM. E. FOSTER
FOSTER & FOSTER,
Attorneys, Counsellors & Barristers at Law.
No. 3 Prince Street, Halifax, N. S.
Special attention paid to mining titles and rights, the bonding and sale of mining properties, and all other legal business throughout the Province.

FIRE BRICK
FOR SMELTING FURNACES,
Akron Salt Glazed Drain Pipe.
FISKE & COLEMAN,
Manufacturers and Importers,
72 Water Street, Boston.
We have made the wants of mining companies our study.

Copper, Zinc and Lead Ores
WANTED.

Highest market prices paid. First-class, responsible buyers. Advances made on cargoes. Send analyses, amount per month, samples (25 or 50 lbs.) Address, B. BARNES, Jr., Broker, 50 Exchange Street, Portland, Me.

GLYNN & REYNOLDS,
Booksellers and Stationers,
—DEALERS IN—
Room Papers, Borders and Curtains, Wrapping Paper, Bags and Twine.
American and English Trusses, Card Boards & Fancy Papers.
No. 142 Exchange St., Bangor, Me.
JAS. D. GLYNN. EDW. W. REYNOLDS.

DAVID BUGBEE & CO.
Account Book Manufacturers,
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Also furnish Mining Stock Ledgers, Journals, etc. Every description of Stationery constantly on hand. Paper ruled to pattern.

GOLD Great chance to make money. Those who always take advantage of the good chances for making money that are offered, generally become wealthy, while those who do not improve such chances remain in poverty. We want many men, women, boys and girls to work for us right in their own localities. Any one can do the work properly from the first start. This business will pay more than ten times ordinary wages. Expensive outfit furnished free. No one who engages fails to make money rapidly. You can devote your spare time to the work, or only your spare moments. Full information and all that is needed sent free. Address STINSON & Co., Portland, Maine.

Bar Harbor Stage Line.
Stages leave the Bangor House every morning (Sundays excepted) at 7.40 A. M. Every evening (Sundays excepted) at 7.45 P. M. Leave the Penobscot Exchange at 7.45 A. M., and 7.50 P. M.
Fare from Bangor to Ellsworth, \$2.00
" " " Bar Harbor, 3.50
F. O. BEAL, Prop.

DUC'S
IMPROVED ELEVATOR
BUCKET

For use in GOLD AND SILVER ORES, and any material Extra strong and durable. No corners to catch. Do not buy imitations.
Address CONTINENTAL IRON WORKS, Sole Manufacturers, Brooklyn, N. Y.

N. H. BRAGG & SONS,
Wholesale & Retail Dealers in
IRON & STEEL
Blacksmith's Tools, Cumberland Coal.
AGENTS FOR LA BELLE CAST STEEL.
No. 4 Broad Street, Bangor.

G. W. MERRILL & CO.,
Manufacturers and Dealers in
All Kinds of FURNITURE.
Feathers, Mattresses, Upholstery Goods.
&c. &c. Prices as low as at any house in New England.
63 & 65 Main St., Bangor.

[ESTABLISHED 1848.]
THE HAZARD MFG. CO,
Manufacturers of
IRON AND STEEL
WIRE ROPE

OFFICE AND WORKS, WILKES-BARRE, PA. OFFICE AND WAREHOUSE, 87 LIBERTY ST., N. Y.
Send for Circular.

SPECIAL NOTICE.
Harrington Silver Mining Co.

The Stockholders in the above company are hereby requested to send to the Secretary their trustee receipts and receive stock for the same, in order that arrangements may be made for resuming active work at the mine.

Per order of the President,
EUGENE H. DAKIN,
Secretary.
Bangor, February 3d, 1882.

ASSESSMENT NOTICE.
OFFICE OF THE TREASURER
OF THE
Hereules Copper Company,
OF PENOBSCOT, ME.
135 Middle Street, Portland, Maine.

PORTLAND, ME., Feb. 7, 1882.
Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, Feb. 27th, 1882, by stockholders of record at the close of business, February 15th, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 25th day of March, 1882, will be delinquent and will be advertised for sale at public auction and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale will be sold.

The stock of this Company will be exchanged, share for share, for the stock and club receipts of the Hereules Mining Co.

By order of Board of Directors,
JOHN N. LORD, Treasurer.

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Maine Mining Journal.

DEVOTED TO THE MINING AND INDUSTRIAL INTERESTS OF THE NEW ENGLAND STATES AND BRITISH PROVINCES.

[Entered at the Post Office in Bangor, Maine, as second-class mail matter.]

5.—12.—117.

BANGOR, MAINE, MARCH 24, 1882.

{ \$2 per Year
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W. FRANK STEWART,
Practical Geologist and Mining Engineer.

Parties who may desire my services as a mining geologist, in any portion of North America, can confer with me by writing to the care of the Mining Record, No. 61 Broadway, New York; or to the MAINE MINING JOURNAL, Bangor, Me.

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WM. M. JEWETT, Treasurer.

JOHN M. MERRILL, Secretary.

J. H. MOYLE, Superintendent.

Cherryfield Silver Mining Co.

OFFICE, CHERRYFIELD, ME. MINES, CHERRYFIELD, ME.

Capital \$500,000. 100,000 Shares. Par Value \$5.00

Unassessable.

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WM. FREEMAN, Treasurer.

WM. FREEMAN, Secretary and General Manager.

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WM. A. LEONARD, Supt.

Copperopolis Mining Company.

OFFICE, 4 SEARS' BUILDING, BOSTON, MASS.

Capital, \$500,000.

Par Value of Shares, \$2.50.

Unassessable.

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S. L. SYMONDS, Treasurer.

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JOHN SHOENBAR, Superintendent.

Deer Isle Silver Mining Co.

OFFICE, PORTLAND, ME. MINES, DEER ISLE, ME.

Capital, \$500,000.

100,000 Shares.

Treasury Fund, 52,000 Shares.

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GEORGE F. GOULD, Secretary.

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S. Z. DICKSON, Superintendent.

Gouldsboro Silver Mining Co.

OFFICE, ELLSWORTH, ME. MINES, GOULDSBORO, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

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Milton Mining Company.

OFFICE, 4 SEARS BUILDING, BOSTON, MASS.

Mines, West Sullivan, Me.

Capital, \$1,000,000. 200,000 Shares. Par Value, \$5.00

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GEO. E. HARRINGTON, Treas.

HORACE T. STARR, Secretary.

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JOHN SHOENBAR, Superintendent.

Mammoth Copper Mining Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

250,000 Shares.

Par Value, \$2.00.

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G. W. PICKERING, Treasurer and Transfer Agent.

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Par Value of Shares \$5.00.

Unassessable.

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Par Value, \$5.00.

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C. F. BRAGG, Treasurer.

C. F. BRAGG, Secretary.

Directors—Frederick M. Laughton, F. W. Hill, C. F. Bragg and Thomas White, of Bangor; S. N. Stockwell and G. B. Putnam, of Boston.

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OFFICE, 17 Tremont Bank Building, BOSTON, MASS.,

MINES, SULLIVAN, ME.

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100,000 Shares.

Par Value, \$5.00.

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Mines at East Surry, Me.

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Directors, Jas. W. Davis, Ellsworth, Me.; M. Donelan, East Surry, Me.; Dr. L. W. Hodgkins, Ellsworth, Me.; Major General Conyers Tower, England; Hon. Jas. F. Davis, Mayor of Ellsworth; A. W. Clark, H. B. Mason, Ellsworth, Me.

M. DONELAN, Supt.

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Office at Bangor, Me. Mines at Blue Hill, Me.

Capital, \$500,000.

100,000 Shares. Par Value, \$5.00 each. Treasury Fund, 20,000 Shares.

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F. H. WILLIAMS & CO., Financial Agents.

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OFFICE.....BANGOR, ME.
MINES AT.....BLUE HILL, ME.

CAPITAL, \$500,000.

100,000 Shares. Par Value, \$5.00. Treasury Fund, 30,000 Shares.

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Office, 11 CENTRAL STREET,

Room 4, Boston.

Mines at Garland, Me.

Capital, \$500,000. 200,000 Shares. Par value, \$2.50. 25,000 Shares in Treasury.

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Office at Oldtown, Me.

FAVORITE MINING COMPANY.

Bluehill, Me. Incorporated July 1, 1881.
Capital, 500,000 Shares, \$5 each; assessable.
President, A. E. Herrick, Bluehill; Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

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Capital, \$500,000, divided into 100,000 shares, forever unassessable.Company's office at the Mine, West Sullivan.
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A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY

Blue Hill, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

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McFARLAND SILVER MINING COMPANY

Hancock, Me.
Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.

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Capital, \$400,000; Shares, \$10 each.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.

P. MULLAN, Supt.

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Bucksport, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
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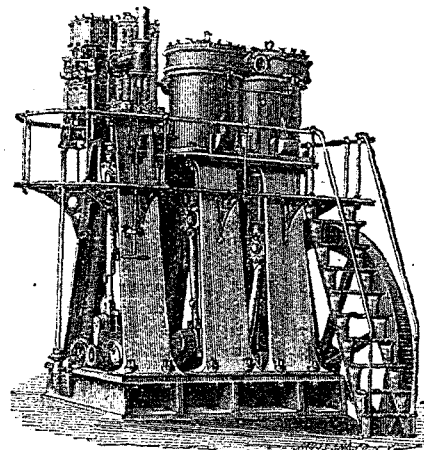
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Sale of Delinquent Stock

STEWART COPPER MINING COMPANY.

Mines at Blue Hill, Me. Principal Place
of Business, Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, in Bangor, Me., (No. 3 Wheelwright & Clark's Block), on Saturday, the twenty-fifth day of March, 1882, at 2 o'clock P. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is ten (10) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued, are as below indicated in their appropriate column.

Name.	No. of Certificate.	No. of Shares.
Atlantic Copper Mining Co.	596	1,454 1/2
O. Bailey	79	500
O. Bailey	80	100
O. Bailey	81	100
O. Bailey	82	50
J. R. Bodwell	87	500
J. R. Bodwell	88	100
J. R. Bodwell	89	100
J. R. Bodwell	90	100
J. R. Bodwell	91	100
J. R. Bodwell	92	100
J. R. Bodwell	93	100
J. R. Bodwell	94	100
J. R. Bodwell	95	100
J. R. Bodwell	96	100
J. R. Bodwell	97	100
J. R. Bodwell	98	25
G. S. Bean	106	100
G. S. Bean	114	100
G. S. Bean	115	100
G. S. Bean	187	75
C. C. Burrill	252	75
A. M. Bartlett	315	500
Robert Caldwell	318	101 1/2
H. P. Caldwell	321	500
John Humphrey, Trustee	305	100
Benj. Hinckley	317	18 1/2
Bion R. Lane, Trustee	228	100
Bion R. Lane, Trustee	240	100
Bion R. Lane, Trustee	241	100
Bion R. Lane, Trustee	242	100
Bion R. Lane, Trustee	243	100
Bion R. Lane, Trustee	250	87 1/2
J. F. Porter	258	18 1/2
G. M. Parker, Trustee	292	25
Wm. H. Raymond	223	75
H. N. Pinkham, Trustee	395	100
H. N. Pinkham, Trustee	414	200
H. N. Pinkham, Trustee	415	200
H. N. Pinkham, Trustee	416	200
H. N. Pinkham, Trustee	417	100
H. N. Pinkham, Trustee	418	100
H. N. Pinkham, Trustee	419	100
Geo. F. Ropes	503	75
J. A. Strout, Trustee	52	37 1/2
J. L. Skolfield	157	200
J. L. Skolfield	158	250
James H. Stetson	411	75
Edward Tyler	420	75
James Young	99	100
F. H. Williams, Trustee	558	500
F. H. Williams, Trustee	461	500
F. H. Williams, Trustee	429	500
F. H. Williams, Trustee	504	500
F. H. Williams, Trustee	438	500
F. H. Williams, Trustee	447	500
F. H. Williams, Trustee	448	500
F. H. Williams, Trustee	505	500
F. H. Williams, Trustee	462	500
F. H. Williams, Trustee	463	500
F. H. Williams, Trustee	506	500
F. H. Williams, Trustee	559	500
F. H. Williams, Trustee	407	100
F. H. Williams, Trustee	439	100
F. H. Williams, Trustee	440	100
F. H. Williams, Trustee	441	100
F. H. Williams, Trustee	442	100
F. H. Williams, Trustee	443	100
F. H. Williams, Trustee	449	100
F. H. Williams, Trustee	450	100
F. H. Williams, Trustee	451	100
F. H. Williams, Trustee	452	100
F. H. Williams, Trustee	453	100

F. H. Williams, Trustee	464	100
F. H. Williams, Trustee	556	100
F. H. Williams, Trustee	537	100
F. H. Williams, Trustee	538	100
F. H. Williams, Trustee	539	100
F. H. Williams, Trustee	540	100
F. H. Williams, Trustee	541	100
F. H. Williams, Trustee	542	100
F. H. Williams, Trustee	54	75
F. H. Williams, Trustee	302	75
F. H. Williams, Trustee	434	75
F. H. Williams, Trustee	465	75
F. H. Williams, Trustee	590	50
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C. F. BRAGG, Treasurer.

Bangor, Feb. 22, 1882.

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OFFICE OF THE

Sullivan Mining Co.,

OF MAINE.

8 CONGRESS STREET, Room 17,
BOSTON, March 9, 1882.

Notice is hereby given that at a meeting of the Board of Directors, held on the 7th day of March, 1882, an assessment of twenty-five cents per share was levied upon the Capital Stock of this corporation, payable to the Treasurer, March 31st, 1882, by stockholders of record at the close of business March 21st, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 1st day of May, 1882, will be delinquent, and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold on SATURDAY, May 20th, 1882.

Stockholders will please present their certificates, that payment may be endorsed thereon.

By order of the Board of Directors.

FREDERIC R. NOURSE, Treasurer.

OFFICE OF

Milton Mining & Milling Co.

No. 1 SEARS BUILDING.

Boston, March 2, 1882.

By vote of the Stockholders, at a special meeting held at Portland, Maine, March 1, 1882, the property and assets of the Company were transferred to the MILTON MINING COMPANY, a corporation chartered by special act of the Legislature of Maine, approved March 17, 1881. An equal number of shares of the new company will be issued, share for share, to the holders of the stock of the Milton Mining and Milling Company, on surrender of the old stock to the Treasurer, which must be done within thirty days from this date.

CHARLES H. LEWIS, President.

ASSESSMENT NOTICE.

Milton Mining Co.,

Location of Mine and Works,
West Sullivan, - Maine.

Notice is hereby given that at a meeting of the Board of Directors, held on the first day of March, 1882, an assessment of ten (10) cents per share was levied on the Capital Stock of the Corporation, payable immediately to the Treasurer of the Company, No. 4 Sears Building, Boston, Mass.

Any stock upon which the above assessment shall remain unpaid on the 31st day of March, 1882, will be delinquent, and advertised for sale at public auction, and unless payment is made before, a sufficient number of shares of said stock will be sold to pay the delinquent assessment, together with the cost of advertising and expenses of sale.

By order of the Board of Directors,

GEO. E. HARRINGTON, Treasurer.
Office, 4 Sears Building, Boston, March 1, 1882.

Sale of Delinquent Stock

TWIN LEAD MINING AND SMELTING CO.

Mines at Blue Hill, Me.—Principal Place of
Business, Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company, so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, 4 Main Street Bangor, Me., on Monday, the third day of April, 1882, at 2 o'clock P. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is five (5) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued are as below indicated in their appropriate column.

No. of certificate.	Name.	No. of shares.
3.	John S. Jenness	503
7.	M. B. Ricker	100
18.	J. S. Jenness, trustee	1000
19.	John S. Jenness, trustee	1000
20.	John S. Jenness, trustee	1000
21.	John S. Jenness, trustee	1000
22.	John S. Jenness, trustee	100
23.	John S. Jenness, trustee	100
24.	John S. Jenness, trustee	100
25.	John S. Jenness, trustee	100
26.	John S. Jenness, trustee	100
29.	G. W. Pickering, trustee	1000
31.	G. W. Pickering, trustee	1000
114.	Jacob Stern	50
118.	Jacob Stern	100
140.	W. J. Webb, trustee	100
143.	W. F. Seavey, trustee	100
144.	Jacob Stern	100
146.	W. J. Webb, trustee	100
170.	B. B. Thatcher	200
204.	John R. Mason, Treas.	500
210.	Mason & Reynolds, trustees	100
217.	C. E. Hill, trustee	250
218.	C. E. Hill, trustee	100
221.	S. S. Fisk	100
228.	J. E. Parker, trustee	100
243.	J. E. Parker, trustee	100
254.	F. H. Williams, trustee	100
255.	F. H. Williams, trustee	25
262.	Jacob Stern	100
362.	Jacob Stern	100
363.	Jacob Stern	100
365.	John R. Mason, Treas.	100
366.	John R. Mason, Treas.	100
390.	G. W. Pickering, trustee	500
392.	G. W. Pickering, trustee	500
476.	H. N. Pinkham, trustee	500
417.	H. N. Pinkham, trustee	500
478.	H. N. Pinkham, trustee	500
419.	H. N. Pinkham, trustee	100
420.	H. N. Pinkham, trustee	100
421.	H. N. Pinkham, trustee	100
720.	John R. Mason, Secretary, trustee for Twin Lead Copper Mining Company and stockholders	4,120

JOHN R. MASON, Treasurer.

Bangor, March 9th, 1882.

For NEW YORK SOUTH and WEST.
FALL RIVER **FARE ONLY \$3.00**
LINE **FIRST CLASS**
Boston to New York.
Leave Boston from Old Colony Depot by special express train at 6 P. M. (accommodation at 4.45 P. M.) week days, connecting with steamer at Fall River in ninety minutes.
Tickets, Staterooms and Berths secured at No. 3 Old State House, corner Washington and State streets, and at Old Colony Depot.
J. R. KENDRICK, Supt. L. H. PALMER, Agent, 3 Old State House, Boston.

When answering or referring to our advertisements, please mention this paper.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING, } EDITORS.
W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

Subscription price, \$2.50 per year, or \$2.00 when paid in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MARCH 24, 1882.

Measures looking to the reorganization of the Boston Mining and Stock Exchange are being quietly pushed. The Traveller says the plans proposed, if adopted, will without doubt fully re-establish public confidence in the institution.

The Rockland Opinion, speaking of the proposed narrow gauge railroad from Rockland to Union and other points in that section, says there are large bodies of iron ore at East Union, near Crawford's Pond and Senebec Pond, which would be very valuable to work with railroad facilities.

Capt. N. H. Higgins, the genial landlord of the Copper and Gold Exchange, Blue Hill, is responsible for the following bit of good advice:

"In navigating through this life,
In poverty or riches,
If fortune sends a "head beat" sea
Just ease her when she pitches."

A well known mining engineer, formerly of this State, now superintending a mine in Sonora, Mexico, writes us as follows: "Mines in Sonora are plentiful and rich, but thus far I have seen no placer gold deposits in this part of the country equal to the Chaudière; no gold quartz more capable of large returns than the Nova Scotia veins; and, under local drawbacks here, no better chances for legitimate mining than can be found in New England and the Provinces."

We shall commence, in next week's issue, the publication of a treatise upon Concentration, Smelting and Milling as applied to the ores of the Eastern States and Provinces, from the pen of Professor F. L. Bartlett, of Portland. There is no one more competent to write upon this subject than Prof. Bartlett, as he has been engaged in studying and experimenting upon these particular ores for a number of

years, and his methods of treating them at the Portland Smelting and Reduction Works have been entirely successful. The subject will be treated in detail in a practical manner, with figures and estimates (but no "dynamical" business), and the article will be one of great interest and value to the mining public. It will be copyrighted, and therefore will appear exclusively in the MAINE MINING JOURNAL.

The mining share market has shown considerable activity in New York during the week, but in Boston there are few, if any, signs of improvement. Lake Superior coppers generally remain firm, but they are in little demand. Sales of Eastern mining stocks at the Boston Mining and Stock Exchange for the week ending on Wednesday last amounted to only 28,000 shares, as follows: 20,900 Milton, closing at 8c.; 4,600 Deer Isle, closing at 15c.; 1,000 Twin Lead at 5c.; 700 Sullivan at \$1; 200 Mammoth at 8 to 7c.; 100 Douglass (ass't paid) at 50c.; 300 Hopewell Manganesic at 15c. to 21c.; 200 Copper Prince (Nova Scotia) at 55c. The only sales of Maine shares at the Old Board were 1,300 Sullivan at \$1 1-16 to \$1. Maine mining stocks will not long remain down at their present prices, and speculators and investors who neglect to lay in a supply will miss a golden opportunity.

THE EFFECT OF BEAR RAIDS.

The New York Stockholder says: "It is asserted by the most intelligent merchants that the manipulations of the stock market are seriously depressing the legitimate trade of this city, and, of course, of the country. It is well known that these manipulations, carried on by a few rich and unconscionable men, have driven completely out of the market the outside buyers of stocks and securities, and that the large transactions daily reported are the efforts of a clique of selfish speculators operating for their own advantage at the expense of the community. This is particularly the case with the bears, who strive to produce a panic which must inevitably destroy a vast number of dealers of moderate means who have no power to resist. The bulls have the redeeming trait that they desire to prevent such a catastrophe. The motive influencing the bulls, however, may not be the good of the community, but to save their own holdings. The result is, however, the same, and they should have all of the credit they deserve. The question is, in the mouth of all honest men, is it possible to put a stop to this gross abuse of wealth possessed by those who are destitute of principle?"

A correspondent writing to the same paper, pertinently suggests that the Legislature shall appoint a commission, such as is proposed for the regulation of railways, which shall be given almost arbitrary power over the Stock Exchange. He deals chiefly with the particular phase of "selling short," and which he claims is simply a gambling transaction, and cannot in any way be of advantage to any known legitimate business. He proposes that it shall be made a crime for any one to sell what he has to borrow to make delivery of; and that the evasion of this law, either directly or indirectly, shall, in addition to the criminal offence, work a forfeiture of the entire subject matter of the transaction.

We are glad to see this subject brought to public notice,

as it is high time that the transactions of the Stock Exchanges should be regulated by some power outside of and higher than themselves.

Personals.

COL. W. H. DARLING, of Blue Hill, was in the city yesterday.

MR. C. W. BRYANT, of Deer Isle, is painfully ill with rheumatic fever.

MR. JOHN L. STODDARD, the well known lecturer, sails for Europe during the last week of April.

HON. F. M. LAUGHTON and JOHN S. JENNESS, Esq., have been on a flying visit to Blue Hill during the past week.

MISS GRACE LEE BABB, of Eastport, recently passed the best examination in a class of nearly two hundred at the Philadelphia College of Pharmacy.

JOHN L. GOWDY, for a number of years past Superintendent of the Warren Powder Mills, died at his residence in Warren on Tuesday of last week, of consumption.

SAMUEL P. DINSMORE, publisher of the New York Stockholder, died in that city on Wednesday last. Deceased was widely known in this vicinity where, from 1850 to '54 he edited the Bangor Daily Mercury.

We are pained to learned of the death of the estimable wife of HENRY B. DARLING, Esq., of Blue Hill, which occurred recently at her home in that village. Mr. and Mrs. Darling have been widely known and universally esteemed, and the bereaved husband is assured of the most heartfelt sympathy in his affliction from his many friends in this vicinity.

W. K. REYNOLDS, one of the most able and enterprising citizens of New Brunswick, died at Lepreaux, N. B., on the 9th inst. Mr. Reynolds was the projector of the Grand Southern Railway, the St. John Street Railway, the St. John Suspension Bridge and numerous other large enterprises. He was a native of Pembroke, Maine, although a resident of New Brunswick for nearly forty years.

CAPT. THOMAS POLLARD, Superintendent of the Cape Rosier Mine, was shipwrecked down the Bay on Thursday of last week, as we learn from one of our exchanges. It seems that Capt. Pollard was a passenger on board a small sloop which left the mine for a trip to Castine. When off Ram Island, owing, it is said, to the carelessness of the lookout, the vessel ran onto a dangerous ledge, and, as the tide was falling, remained fast. Prompt assistance was rendered from the Cape, and passengers and crew were successfully rescued. As the weather remained fine the sloop came off the next high tide without much damage.

*Lippincott's Magazine for April opens with a finely illustrated article descriptive of a Normandy Market-Place in spring. "Our Substitute for a Navy," by C. F. Johnson, Jr., of the U. S. Geological Survey, is the title of a paper which, after showing that our chief reliance for defense in case of war must be the torpedo system, gives a full and lucid description of the different kinds of torpedoes invented and their efficiency. Charles B. Todd contributes an interesting paper on the renowned pirate Captain Kidd, whose real history will be new to most people, and scarcely less strange than the half mythical tales connected with his name and fate. The continued stories, editorials and short sketches are all well worthy of perusal.

The Song of the Broker.

With feverish face unshorn, with rings the color of crape
Under a pair of burning eyes, a broker stood watching the tape;
"Denver, Central and Erie—Telegraph, Wabash and Mop,
Go up, ye devils! go up! go up! your downward career oh, stop!

Tick, tick, tick,—through autumn, winter, and spring;
And tick, tick, tick,—while birds in summer time sing.
O, could I but leave the ticker, and this torturing, weary life!
O, could I but say: "Farewell for aye," to the street and the maddening strife!

Tick, tick, tick,—from ten in the morn until three;
And tick, tick, tick,—bright dreams are leaving me.
Good-bye to opera and ball! good-bye to my T-cart and pair!
O, why did I ever become a bull, and game for a ravenous bear!

Tick, tick, tick,—and the hands on the clock go round;
Tick, tick, tick,—I'll soon sleep under a mound—
That is, I'll sleep under a mound, if the market continues to fall;
No put or straddle will trouble me *there*—and never a spread or a call!"
—[Johnny McCann, in "The Stockholder,"

Dips, Spurs and Angles.

—The first stock operation mentioned in literature is when the two bears squeezed the forty-two children who were bolstering up the Elijah stock.

—Out West, whenever an impulsive vigilance committee hang the wrong man, they atone for the little mistake by purchasing the widow a handsome suit of mourning.

—In casting his eye over the universe, the Lowell Citizen man finds that a good many men will allow themselves to be cheated out of their eye-teeth under the impression that they are enjoying the excitement of speculation.

—Jay Gould opened his forty-thieves-cave the other day, and let a few fellows gaze at the resplendent spectacle. The "bears" have been trying ever since to discover the true inwardness of the proceeding.—[Boston Courier.

—Nevada has about 1,000,000 acres of salt land and could supply the whole earth if necessary. Besides this she has about 1,000,000 acres of soda and brimstone deposits, sufficient to run Hades for the next 100,000 years.

—The sales of beer in the State of Nevada for 1881 fell off 1,596 barrels as compared with the sales of 1880. This was probably owing to a reduction in the force of mining superintendents on the Comstock.—[San Francisco Report.

—The total annual consumption of quinine throughout the world is given at 220,000 pounds, of which one-quarter is used in the United States alone. In 1880 we imported 600,000 ounces of quinine. In 1881 the importations were one-quarter larger.

—The Bodie Free Press says that "sometimes editors are compelled to maintain a very delicate position." That is quite true. We once knew one who couldn't sit down for a month after publishing a vigorous attack upon the private character of a prominent citizen.—[Grass Valley (Cal.) Union.

—A mining exposition is to be held at Denver, Col., the coming summer, which is expected to be the grandest display of minerals ever made. After this we shall probably have a perfect avalanche of new mining companies to absorb the savings of college professors and country ministers.—[Boston Star.

—Only one of the seven workmen employed in the telescope manufactory of Alvan Clark, at Cambridge, is an American; and Mr. Clark gives as a reason, that Americans are too nervous to do the minute and exact work required, such as dividing a small circle of metals into four hundred and forty parts.

—A correspondent asks our opinion as to the cause of the decline in Christianity. We are not acquainted with the property, but probably its decline is caused by the watering of stock, following blind leads and too much contention

among stockholders, as to who will superintend the work.—
[Ruby Hill (Nev.) Mining News.]

—An interesting operation in skin-grafting was recently performed in Philadelphia, a piece being taken from a "commercial traveller's" cheek—according to the account—to patch up a pugilist's knuckles. Intelligence which seems to be of a later date sets forth that whenever the prize-fighter appears on the street he is "spotted" for wearing brass knuckles, and taken to a police station.

—According to the last census report (1880) there were in the United States 52,805 persons employed in the oyster industry; 22,795,370 bushels of oysters were produced, the total capital invested being \$10,583,275. As our population in 1880 was put at 50,152,866, the product for the year would allow to each individual a little over a half-bushel as his share, and the cost to produce each person's portion of the delicacies would figure up something over 20 cents.

—Some idea of the greatness of the work done in the Bank of England may be formed from the facts that there are no less than 236,500 accounts open in the public funds; that the number of bank notes issued during last year was 15,250,000, representing a sum of £338,000,000, and that there was a similar number cancelled. An accurate register of every operation is kept, so that any note paid into the Bank within the last five years can be produced within a minute, with information as to the channel through which it had found its way back to the bank, and this notwithstanding that the register represented 77,000,000 of notes stowed away in 14,500 boxes.

THE MAINE MINES.

BY F. L. BARTLETT, PORTLAND, ME.

A certain young man once came into a thriving town to live. He was rich and good natured and immediately made hosts of friends. After a time, however, by mismanagement of his funds he found himself reduced to low circumstances and he felt compelled to ask relief of some of his friends. Much to his surprise they scarcely "knew" him, and his appeals for money were met with such extreme coldness that he at once felt as if he had done something which had let himself down very badly in their estimation; yet he could recall nothing of that nature. His friends had enjoyed the wealth which he had lavished on all with unstinted hands, but now that he was penniless he was also friendless. He left and went to a distant town where by diligent work he soon achieved money and by a few lucky ventures became again immensely wealthy. It was soon announced that Mr. S., formerly of B., was fast accumulating wealth and distinction. No sooner did this announcement get abroad than letters came pouring in from his former friends in B. "Wouldn't he come back—they were proud to acknowledge him as an old and valued friend, etc., etc." "No," he wrote back, "when I was in funds you could not do enough for me—you swore eternal friendship—but when I got dead broke you didn't know me and did not give me even a kind word to help me along; now I have got money again and new friends and you can all go to the devil."

I was reminded of this story yesterday when I met a man on the street who said, after conversing a few minutes on various topics: "By the way, what has become of the Maine mines? Are any of them working now?" He professed to be much surprised that there were mines in the State which were working and one would have thought by his talk that he had never known but little about the mines anyway. And that is just what reminded me of the above story, for I distinctly remember this man when three years ago he was about the streets with his hands full of stocks and he knew every mine, all about it, how much it assayed sideways, endways, lengthways and all other ways; he knew every mine from Grand Manan to the New Hampshire line; he would tell about "fissure veins" and "hanging walls" and

although he didn't know a hanging wall from a keg of ten-penny nails he *could* sell stocks and he afterward boasted of the money he had made by such innocent transactions. But now he knows them not; it is with difficulty that he can recall any recollections of them, but the parties to whom he sold his worthless stock will recollect them and will lose no opportunity of damning them every time they gaze upon those handsomely engraved certificates (which cost \$45 per thousand all bonded and numbered) of the "Excelsior Gold, Silver, Copper, Brass, and Zinc Mining, Milling, Concentrating and Reducing Co." But just let two or three of the mines come to the front by paying dividends and our friend won't remain in the background long—not he, oh no—he will again talk mining lingo and buttonhole his friends while he pours into their ears fulsome flattery of his "great extension" of the biggest dividend mine in the State.

If it were announced that a gold mine had been discovered under Broadway it would not probably be met with half so much scepticism as have our Maine mines from the natives of the State. It is perfectly safe to say that over nine-tenths of our people do not believe in the mines and the worst part of it is they take delight seemingly in taking every opportunity to run them down. Suppose the granite business, slate business, sardine business, packing business, or ice business had met with such a reception, would it have been any easier for the promoters in getting their business firmly established? Things have come to such a pass now that for a person to represent himself as a mining man is sure to bring suspicion to bear against him and his credit is gone to the dogs forever. It is a very strange state of affairs; is there any just cause for it? I say no! and I shall endeavor to show by actual figures that there is no just cause for it.

From 1873 up to the present time there has been invested in the Maine mines, in lands, machinery and working, \$975,000; and there has been received for ores about \$35,000. (This statement includes only the gold, silver, copper, lead and zinc mines.) \$600,000 of this money came from outside the State. \$850,000 of the entire amount has been expended in our State and gone to benefit laborers, farmers, mechanics, railroad and steamboat lines. The inhabitants of the State have put in \$375,000 and have received \$635,000 in return; a pretty good dividend to the State of Maine. If every mine should shut down to-day in the State we have still made 100 per cent. or nearly that on our original investment. Is this anything to find fault with? Has this injured us any? This is not all. I contend that the mines have done more to build up summer travel in our State than anything else ever did or ever could do. Thousands of people learned of the beauties of our coast resorts through visiting our mines; they may not be struck very favorably with our mines, but they cannot help admiring our natural scenery and they soon become regular summer visitors. *This is not all.* Capitalists visiting our State to examine the mines find other openings for the safe investment of money in other industrial pursuits. *Indirectly* the mines of Maine have been already of incalculable benefit to the State, and I contend that it is wrong for individuals and the press to condemn our mines when the proof is actually before them that they have been of so much benefit to us. Supposing you, individually, have no faith in the mines, do you gain anything in constantly telling others your opinion? Hadn't you better keep quiet for fear that you may be mistaken after all? You don't know anything about mining, else you would never make such statements; you can't see into the ground any deeper than the miner himself, so why not say that "there may be something there after all—I hope there is—but it is all a mystery to me"; you would have told the truth then and not committed yourself in any way.

Notwithstanding the croakers, the Maine mines stand to-day in a position which for the amount of development are second to none. With an expenditure of less than one million

dollars we have developed in Maine, mines which will bear fruit for years to come. If in the end we have *two* paying mines we have done as well as most mining sections, taking into consideration the number started with; if we get *five* paying mines we have done far better than the average. Many people find fault with us for not reaching results sooner. The reason for our slowness is to be found in the expense account; we are not spending much money; if our expenses were equal to those of the western mines we should get along just as fast; they spend one hundred dollars to our one. The total expenditures of the Hale & Norcross Mine, of Nevada, were \$351,592.12 for 1881; that of the Quincy Copper Mine, Lake Superior, \$572,018.45; thus it will be seen that these two representative mines have expended more during the last year than has been expended in Maine by *all the mines from the beginning to the present time*. The celebrated Calumet and Hecla Copper Mine expended \$1,200,000 to get on a paying basis. Compared with what has been done in the West we have as yet made but the first step in the way of development. By the liberal use of money they develop more in one month than we do in a year. Actual figures prove that the *monthly* pay roll of hundreds of the western mines is more than the *yearly* pay roll of the most extravagant mine we have got in Maine. On this basis then it takes us twelve years to develop to the same extent that they do in one year. You who have had so much to say about tardy dividends from our mines, how do these figures strike you? The Katahdin Iron Works is now a paying institution and the pride of our State, but it had a long and hard struggle to reach that point; the same may be said of many other enterprises now successfully going on.

Mining stocks are down, the festive stock broker wears a long face, and people who gain their knowledge (?) of the mines from reading the daily stock quotations have an idea that the mines are in the same condition as the stocks. To such I wish to say that the price of a stock is no criterion whatever upon which to judge of the value of a mine. More than that, the Maine stocks are worth more to-day by *one hundred per cent.* than the leading western mines when compared by the amount of capitalization. The Consolidated Virginia Mine, of Nevada, has paid nearly \$43,000,000 in dividends, yet the stock sells to-day at the rate of but \$432,000 for the entire mine. The capital of this mine is \$54,000,000, consequently the present stock value of this mine to its capitalization is as 1 to 125. That of our Douglass Mine is as 1 to 10; that of the Sullivan is as 1 to 5, even at the present low prices. Our mines to-day offer just as safe a chance for investment as (and I think *safer* than) any others in existence. The mistakes and blunders which have been made are but atoms when compared with those of other mining centres, yet we shall profit by them and win in the end.

Let us briefly review what has already been done. The problems we had to meet in the prosecution of mining in this State were these:

1st—Have the veins any depth and will they increase in width and richness?

2nd—Is the ore valuable for the production of the base and precious metals?

3rd—Is the ore too refractory to treat profitably?

4th—Can dividends be paid from the working of our mines?

The first three questions have been answered to our entire satisfaction. Our veins are wide, deep, permanent and long. They do contain a fair proportion of the base and precious metals. The ores are not at all refractory and can be treated profitably.

The fourth, and last, question can soon be answered in the affirmative if the managers of our mines will work them just as they would any other manufacturing business—honestly, skillfully, prudently and on their merits.

The Mascot Mining Company.

Brief mention has previously been made by us of a radical change in the officers and management of the Mascot Mining Company. It is but proper that we should now allude somewhat at length to these changes and refer also to the present very flattering prospects of the Mascot Mines.

At a meeting of the Mascot Mining Company in Portland, March 17th, the changes in officers were made. Mr. R. S. Lawrence, Mr. C. W. Hobbs and Col. Chas. H. Lewis resigned as directors and Hon. Frederick M. Laughton and John S. Jenness, Esq., of Bangor, and E. H. Osborn, Esq., of Boston were elected. Mr. Lawrence resigned as President and Hon. F. M. Laughton was elected. Mr. C. W. Hobbs resigned as Treasurer and General Manager and Mr. Frank H. Williams, of Bangor, was chosen Treasurer and the office of General Manager was declared abolished. The present officers of the Mascot Mining Company are accordingly as follows: President, Hon. Frederick M. Laughton, of Bangor; Vice President, Mr. M. S. Gibson, of Portland; Treasurer, Mr. Frank H. Williams, of Bangor; Secretary, Mr. C. W. Hobbs, of Portland; Directors, Hon. F. M. Laughton, Frank H. Williams and John S. Jenness of Bangor, M. S. Gibson of Portland and E. H. Osborn of Boston; Superintendent, J. M. Johnson. A meeting of the stockholders of the Mascot Mining Company will be held in Portland early in April and the Board of Directors will probably be increased from five to seven.

The above changes bespeak a highly successful future for the Mascot Mines. With the advent of the new management, a large amount of money has been placed in the Treasury of the Company. In securing the valuable services of Hon. Frederick M. Laughton as President, the Company is to be congratulated. The gentleman possesses eminent qualifications as an executive officer and manager and enjoys in the highest degree the respect and confidence of the general public, and his prominent connection with New England mining interests for many years makes his selection as President of this representative mining company especially appropriate. Under the new regime work will be pushed at the mines even more vigorously than in the past. Mr. J. M. Johnson, who has been in charge since the commencement of operations on the Mascot, will continue to officiate in that capacity. He is eminently qualified for the position and in the comparatively short time the mines have been working has accomplished a great amount of work and done it well.

Our opinion of the Mascot Mines is well known. In January last a member of our editorial staff visited Gorham, New Hampshire, made a thorough inspection of the mines and the result of our examination was embodied in an elaborate article in the MINING JOURNAL. As an indication of the high opinion in which these mines are held by eminent geologists we copy the following from a private letter addressed during the past few days to President Laughton by Prof. W. Frank Stewart:

I visited the Mascot twice during last autumn and on both occasions fully satisfied myself that the mine is one of the most permanent, best defined, and most richly mineralized lodes of argentiferous galena I have yet seen east of the Rocky Mountains. In addition to the rare fertility of the Mascot lode, its ores are so easy of access and may be so cheaply extracted that the mine cannot fail to be exceptionally remunerative, provided it shall be worked with ordinary prudence.

Work at the Mascot commenced on August 4th, 1881, and since that time one level has been driven 200 feet, a second 178 feet, and a third will soon be commenced. In prosecuting the work a large amount of splendid argentiferous galena has been taken out and of this 279,574 pounds of No. 1 ore have been shipped to the New England Smelting Works and 1,200 tons of No. 2 ore remain on the dump. In the levels immense bodies of magnificent ore have been exposed and the exhibit is one which excites and fascinates the most conservative. In addition to the shipments already made three carloads of ore now remain at the station in Gorham. The following are the shipments of ore made:

	lbs.
No. 1, Sept. 10	25,000
" 2, " 13	25,020
" 3, " 17	23,602
" 4, " 23	24,800
" 5, " 28	27,013
" 6, Oct. 8	24,560
" 7, " 28	20,859
" 8, Dec. 5	42,125
" 9, Feb. 10, 1882	22,000
" 10, " 14, "	23,400
" 11, " 17, "	22,000

270,574

The new management propose to operate systematically, economically and in a business manner, and in the near future great things may be expected of the Mascot Mines. Before long an excursion to the mines will be made both from this city and Boston and it is anticipated a large number of our citizens

and business men will join in a trip which will be both interesting and instructive. Efforts will be made to secure half fare tickets for the journey.

LODES, LEADS AND VEINS.

Blue Hill.

Matters at the Blue Hill camp have a brighter appearance than for some months past. The ore bodies are steadily improving with increased depth, and the work of development is going rapidly forward. Six mines are in full operation, with a prospect of a resumption of work by several other companies early in the season. The Blue Hill Mine is employing a larger force of men than ever before, and the Twin Lead and Mammoth are working as usual, making good progress, without any special developments to chronicle.

DOUGLASS.—Work in the shaft is being pushed vigorously, and, as the rock is much softer and more favorable than heretofore, rapid progress may be expected. The bottom of the shaft is in a fine body of ore, which, we are told, is of a better character and finer quality than has ever before been shown in the Blue Hill district. The shaft is substantially timbered, and the big pump keeps the mine entirely free from water. Work upon the large fifty-ton smelting furnace is already well under way. During the past two weeks workmen have been engaged in overhauling the machinery of the concentrating mill and getting it into working order, and the mill will probably start up on ore from the dump early next week. Everything appears to be in a prosperous condition.

YOUNG HECLA.—We are gratified to be able to chronicle an important and highly promising strike upon this property. Since operations were commenced in the ledge, as mentioned in our last report, further explorations have revealed a fine body of ore, through which the shaft is now penetrating. The ledge is heavily mineralized for fully twenty feet in width, and fully one-half the material raised during the process of sinking is good ore and most of it high grade. Capt. Ludlow is quite enthusiastic over the prospect.

STEWART.—Good progress continues to be made in both shafts, which have reached a depth of more than 135 feet. Both continue to improve in appearance and are in good ore. A considerable quantity of excellent ore has been raised to the surface.

Sullivan.

SULLIVAN.—As will be seen by notice in another column, Sullivan has levied another assessment (No. 3) of twenty-five cents per share, payable March 31st, and delinquent May 1st.

MILTON.—Very good work has been done on the mine during the week; the three power drills have been kept running without any interruptions and a full crew steadily at work in every department. The vein in the winze still holds its size, and the ore improves in quality as depth is attained.—[Bulletin, Mar. 19.

COPPEROPOLIS.—Everything moving along nicely; working a full crew constantly, but no important changes to note. Have attained a depth of a little over one hundred feet and are still raising good ore from the bottom. Have a good deal of water to contend with and nothing but a windlass and man power to raise that distance, and consequently making slow progress; but when the new machinery is in place, with pumps and facilities for hoisting, the shaft will be sunk to the required depth with greater ease and rapidity.—[Sullivan Bulletin, March 19.

GOLDEN CIRCLE.—At the annual meeting of the Golden Circle Mining and Milling Company, held at Portland on Tuesday, 54,896 shares of stock were represented and the following officers were chosen for the ensuing year: President, George Gilman; Treasurer and Secretary, A. S. King; Directors, George Gilman, A. S. King, T. O. Winslow and John M. Mitchell, of Portland, H. J. Swift and J. H. Miller, of New York, and W. S. Johnson, of North Adams, Mass.

British Provinces.

We extend our thanks to the editor of the Cape Breton Advocate for a copy of the Report of the Nova Scotia Mines Department for 1881.

The copper mine at Eagle Head, Gabarus, C. B., has been sold to an American company, and work there is to be vigorously entered into.—[North Sydney Herald.

The bill to increase the capital stock and amend the act to ratify and confirm the incorporation of the Brunswick Antimony Company was passed by the New Brunswick Legislative Council on Tuesday.

A correspondent, who is engaged in working the claims at

Chegogin Point, writes that good assays have been returned from specimens forwarded from two lodes on their property at that place. They have sent specimens from five other lodes to New York for assay from which equally good returns are expected. Our correspondent concludes in the following words: "I think I can say that we will be able to prove to you before long, that we have the richest spot in Nova Scotia."—[Halifax New Era.

Mr. D. A. McDonald, of Renfrew, brought into Halifax, on Tuesday of last week, a bar of gold weighing one hundred ounces and valued at \$2,000, from his mine at Caribou. It represents five weeks' work, and cost, including labor, crushing, etc., about \$380. The lead from which it was taken averages 2½ feet in width and yields two ounces per ton. The bar was the result of a mill test of 45 tons. This fine property has recently been sold, through Messrs. Adams & DeCamp, to the Amherst Gold Mining Company, a New York corporation. The reported price paid was \$80,000.

The Cape Breton Advocate learns that the General Mining Association have purchased the Victoria Mines, Low Point, and will shortly commence to put the mine in repair, that speedy mining operations may be resumed. The property is one of the best known in the Island, but for several years has been allowed to deteriorate. It was sold in Halifax some time ago to Mr. Wiley Smith for a nominal figure. The G. M. A. owns the adjoining lease, and the two will form a most valuable property. Last year the pier was partially destroyed by ice.

There is every prospect of renewed activity in the Nova Scotia gold mines during the coming season. Work is being carried on with vigor at Isaac's Harbor and extensive preparations are being made for opening up new works at different points along the Southern shore. The Hall Bros., of Fifteen Mile Stream, have procured an engine and boiler for their works, which they are transporting from Hopewell through the woods to their mine. Messrs. Shaw & McKay are taking steps to repair the Pictou Crusher, in the same locality, with a view of being ready for the spring work.—[Eastern Chronicle.

Our attentive correspondent at Ohio, Antigonish, writes that the silver lode at St. Joseph's, in that county, mentioned some time since in these columns, has been thoroughly tested by competent assayists and has proved to be very valuable. Certain capitalists from Colorado have acquired an interest in the mine and commenced operations there. Our correspondent further writes that a similar strike has been made at Ohio on the Ohio, or West, river. It is on the same range as the mine previously mentioned and promises to prove fully as valuable as it. It is only about eight miles from the nearest railway station.—[New Era.

MARMORA GOLD FIELDS.—Messrs. Gaujot and Stewart, representing the Gladstone and Sulphuret Gold Mining Company of Marmora, county of Hastings, are at Ottawa with a remarkably fine showing of gold bearing quartz. This company is organized for purchasing and working the mines on lots 17 and 18, in the township of Marmora. The Gladstone Mine has been very successfully worked, and a large amount of gold taken from it. The ore yields an average of \$14.30 per ton, though some of the smaller veins have yielded several hundred dollars to the ton. The richness of the mines may be judged from the fact that, with only a five-stamp mill crushing not more than five tons in twenty-four hours, \$250 to \$840 of gold bullion per week have been turned out. It is of remarkable fineness, averaging from 925 to 972 in upwards of \$17,000 already produced from one of the veins and treated at the United States Mint. There are now five shafts on the property of the depth of from 20 to 25 feet in ore. The Free Press says that it is proposed to stock the company at \$300,000, in shares of one dollar each, of which half has been taken up. The balance is to be allotted in large or small amounts.

Croppings.

[Compiled, Condensed and Condensed from our Exchanges.]

The greatest depth of the English coal mines is 2,800 feet below the sea level. The galleries have a combined length of 58,744 miles, and in the mines there are 378,151 laborers.

The Tombstone Nugget advises miners to keep away from Arizona for the present. It says there are hundreds of men in the Territory already out of work with no show of their obtaining it very soon either.

The Anglo-American Club of Freiberg, Germany, an association composed mainly of students attending the School of Mines in that City, has issued, through a committee, a circular requesting mining engineers to forward to the Club copies of

papers and reports published by them, as they will prove of great assistance to the students.

A great blast, which has been preparing for nearly a year at the limestone quarry of the Glendon Iron Company, near Easton, Pa., was fired recently. Four tunnels, each 50 feet long, were run into the hillside, and at their end two chambers were built at right angles each 8 feet long. Ten tons of powder were used, and upon igniting the charge, 40,000 tons of rock were dislodged.

Clarence King, the eminent geologist, has formed a \$2,500,000 syndicate to reopen the famed Sombretre Mines of Old Mexico. These mines, situated near the boundary line of the States of Durango and Yacatecas, were wonderfully rich when worked years ago. Mr. King proposes sinking a shaft 1,000 feet deep, the works for which have been ordered in New York at a cost of \$250,000.

The Richmond Consolidated Mining Company, an English corporation whose mine is at Ruby Hill, Nevada, has recently paid at London its usual quarterly dividend of \$2.50 per share, aggregating \$135,000, and making a total to date of \$3,637,600, equal to \$67.87½ per share. The mine adjoins the Eureka Con., an American Company which has not paid a dividend since last year, and which only produced \$60,000 in January.

PENNSYLVANIA COPPER MINES.—The Harrisburg Telegraph of March 11 says the South Mountain Copper Mining Company have developed a rich vein of copper ore eight and one-half feet wide at a depth of 75 feet, on the Russel farm, near Monterey Springs. The Shickshinny Coal Company are also developing a rich mine on the same belt. The Harrisburg Copper Mining Company will commence work in a few days at their mines on the same belt.

The Lincoln Iron Works, Rutland, Vt., have been recently purchased by a marble combination of which ex-Governor Proctor is the representative, for \$30,000. The present buildings are to be enlarged to twice their present capacity and refitted with new machinery. All the work of the several marble firms will be manufactured at this establishment. Heretofore the iron work of these companies has been divided between three or four manufacturing establishments and machine shops of Rutland.

Iowa is excited about a cannel coal discovery 30 miles from Des Moines. It was discovered by parties who were prospecting for coal on the new line of the Wabash Road into Des Moines. They found it in a regular seam in one place, and upon trying in three or four other places, distant a mile or two, they found it there also. It is in a vein five feet thick, the lower two and a half ft. being the pure cannel coal and the upper half of a coal much resembling the Blossburg coal. It has been tried and found to be equal to the best English cannel.

A morning paper states that a strong movement is being made at the American Mining Exchange to have the present embargo on smoking in the Board-room removed, and predicts that customers and brokers will thereby be attracted thereto, instead of seeking the inhospitable curbstones on the outside to gratify their passion for the weed. We were aware that business was somewhat slow at this Board, but did not previously attribute it to any cause in connection with tobacco. If a revival can be brought about by so simple an expedient as the permission to smoke, it would seem almost criminal in the Governing Committee to hold out against it.—[Daily Stock Report.

Until recently the copper production of Colorado has been quite limited, and has been looked upon as a secondary product to the more valuable metals, and hence the copper industry has not been carried on to any great extent in comparison with what may be expected in the near future in making Colorado a large producer of copper brought to a marketable shape. In nearly all the newer camps in Lake and Summit counties, as well as in other parts of the State, copper ore is very largely found in many of the mines, but has often been neglected for want of better communication with the East, a matter that is soon to be overcome with the great advance of the iron horse, which will enable copper ores, low grade in silver and gold, to be shipped and treated at a handsome profit, while at the present time so many that would be rich copper mines are still hemmed in and surrounded by what may be termed inaccessible places, at least for the transportation of ore that is more purely copper.

*Business men of Providence, claiming to represent \$20,000,000 of property, are petitioning their Legislature to prohibit the railroads selling cheap excursion tickets to Boston; in other words to protect them against the overpowering mercantile attractions of the Hub.

EASTERN INDUSTRIES.

—Sebec is to have a toothpick factory.

—Lime shipments from Rockland during last week amounted to 13,655 casks.

—The Piscataquis Observer says that John Tripp has sold his slate quarry at Mouson.

—E. & J. Fred Webster, of Orono, have cut seven million feet of logs on Mattawamkeag waters during the past winter.

—The Southampton, New Brunswick, Woolen Mill has turned out 3,000 yards of cloth and 1,600 blankets as a portion of last years' work.

—The Newichawanick Company, South Berwick, are running their mill to its fullest capacity, making a specialty of bed and all-wool horse blankets.

—The total value of foreign exports from the port of Portland for the week ending on Saturday last was \$257,885. Included in this were 13,542 feet of lumber.

—E. M. Hersey's clothes pin factory and Shaw Bros.' tannery, at Vanceboro, have been compelled to shut down temporarily on account of the small-pox scare.

—The Hochelaga Cotton Mill, near Montreal, has a main building 750x80, five stories, a capacity of 75,000 spindles, and furnishes employment for 1000 to 1100 persons.

—Shipments from the Auburn shoe factories for the week ending Wednesday, March 15, amounted to 2,230 cases—with one exception, the largest of any week on record.

—The North Berwick Manufacturing Company, North Berwick, have added a new set of cards, also six new looms. They are also putting a new elevator into their storehouse.

—The Lewiston Machine Company, Lewiston, are building an addition to their foundry 65 feet in length, which will be used for a moulding room. The company are very much driven on orders.

—The sap is flowing very freely and maple sugar will soon be plenty in the market. The weather is exceedingly favorable and the amount of sugar made will be unusually large this season.

—F. Shaw & Bros. peeled the past winter 5,000 cords of bark on Township 3, Hancock County, owned by Messrs. John Morison and B. P. Gilman, but have only been able to haul away about 500 cords.

—L. Buck, Son & Co., of East Farnham, P. Q., employ 55 hands in the manufacture of seamless hosiery. They average 55 dozen a day, and will build to double their capacity early next season.

—Two thousand seven hundred and thirty-four bags of sugar from Brazil for the Moneton (N. B.) Refinery were recently received at Halifax by the second steamer of the new Brazilian Line.

—The Lincoln Mill, Lewiston, is turning out the largest production which it has ever reached since the mill was started. It is said that the profits of this mill have been exceedingly flattering for the past three years.

—The Portland Company have completed two more locomotives for the Northern Pacific and they will be forwarded at once. The Company are also delivering flat cars for the Bangor and Katahdin Iron Works Railway.

—A fine schooner was launched at Kennebunkport on Wednesday for A. M. Smith, of Portland; also launched the same day from Clark's shipyard, Kennebunk, a schooner of 162 tons, built by Capt. Bradford Oakes, and now offered for sale.

—The Sentinel says there have been shipped the past season from Eastport and vicinity 29,650,600 frozen herring, and that the amount of money paid, in cash, to the fishermen, has not been far from \$120,000. To get these fish to the western markets required 145 cargoes by sailing vessel and 9830 barrels by steamer.

—Canada is shipping many cattle and sheep to Europe. The shipments of 1881 were—Cattle, 54,240, of the value of \$4,068,000; sheep, 72,287, of the value of \$506,000. In 1880—Cattle, 50,818; sheep, 81,547. In 1879—Cattle, 26,176; sheep, 78,780. In 1878—Cattle, 18,655; sheep, 41,250. In 1877—Cattle 13,400; sheep, none.

—The barytes mill at Bath began work again on Monday of last week, on four hundred tons of raw material, says the Times. The barytes, more commonly known as "heavy spar," is mined in the vicinity and after being ground at the mill is

shipped chiefly to New York, where it is extensively used for painters' material.

—Fifty thousand dollars have been subscribed toward the establishment of a jute bag factory in Montreal. Messrs. G. A. Drummond and John McDougall, two leading manufacturers, are at the head of the enterprise. Jute, being on the free list, will be imported from abroad, and the new factory will give extensive employment.

—The Paris Hill Manufacturing Company are doing an immense business in boys' carts, wagons, wheelbarrows, etc. Last year their business exceeded \$50,000, and the indications are that there will be a large increase the present year; their goods are gaining an excellent reputation and are sent to nearly every State in the Union.

—Mr. Charles H. Lovejoy, of Sidney, has been doing quite a business this winter in collecting apples and shipping them to market. He has sent to Boston eleven carloads or 1187 barrels, and 320 barrels to Washington. Most of these apples were purchased in Sidney and Belgrade, and he paid out about \$4000 to farmers in that vicinity for fruit.

—The T. B. Hussey Plow Works, North Berwick, have increased their capacity by the addition of a foundry 100x45, and will use their old foundry for a storehouse and workshop. These works have more than doubled their sales this last year in their steel plows and cultivators, and have 1500 hundred plows nearly ready for shipment.

—Fletcher & Butterfield, of this city, have closed a contract with the Sherman Soldiers' Monument Association to erect a monument in that town. It is to be of Italian marble, with double granite base, and will stand twenty feet and four inches high, and will cost \$975, exclusive of transportation, and is to be erected in season to be dedicated on the fourth of July.

—Business at Red Beach (near Calais) has been brisk this winter. The Maine Red Granite Company are filling orders as rapidly as possible, and are putting in new and expensive machinery; the Bone Phosphate Works are running full blast; the Plaster Manufactory has been driven all winter to its fullest capacity, and vessels are being chartered and loaded with dispatch.

—Several Lewiston firms are now selling dry goods, boots and shoes, etc., at wholesale to Texas and other far-away points, and re shipping them by mail in four-pound packages. An important business is done in filling the orders of Maine buyers now located in distant parts of the country, who can have their wants supplied by mail from Lewiston speedily, and more cheaply than from other points.—[Journal.

—The Ellsworth Foundry and Machine Company was organized on Tuesday last by the choice of the following officers: President, Francis Worcester; Treasurer and Secretary, Wm. O. McDonald; Directors, Francis Worcester, F. Worcester, Jr., W. O. McDonald, Lafayette Davis and H. B. Mason. The directors were instructed to take the proper measures to have the property conveyed to the company, and report at an adjourned meeting to be held April 5.

—Forest City is full of business. After the fire three weeks ago, a large force were set at work hewing and hauling timber. Three hundred thousand feet of lumber was required to rebuild. The buildings are mostly up and fast approaching completion. There are two hundred men in and about the works, including the teams that are hauling in 175 cords of bark a day from the head of the Lake. Mr. Beatham had 114 span of horses at work for him before the thaw.—[Houlton Times.

—A large business is carried on at Chas. H. Dunning's tannery in Brewer. Regular employment is given at the tannery to eighteen men and a large amount of work is turned out. At one time last month he had ninety tons of raw hides on the rail coming here and he has paid out as high as seven thousand dollars a week. A very large amount of bark has been hauled to the tannery and employment directly and indirectly has been furnished a large number. This takes prominent rank among the industries adjacent to Bangor.

—Messrs. Potter & Wrightington's canning factory at Green's Landing, Deer Isle, has commenced work, putting up clams and clam chowders. Mr. George Tolman has either bought or leased the lobster canning establishment at Burnt Cove, and will commence operations April 15. The other factories were to start up the present week. Messrs. Chas. A. Dyer & Co., of Portland, have leased the premises formerly occupied by the Portland Packing Co., at Oceanville, and are arranging to do a large business the coming season in canning lobsters, mackerel and clams.

—Business is good at the East Deering shipyards. Russell

has a 300-ton schooner nearly finished, to be rigged on the stocks; she will be commanded by Capt. Leslie B. Clark, of Pembroke. As soon as this one is launched work will be commenced upon a barkentine of about 600 tons, the timber for which is already in the yard; this vessel will be completed about the first of November, and will be commanded by Capt. Geo. W. M. Fadden, of Lubec. Sargent has the keel of a large schooner laid, which is now well seasoned, and the work of construction will be pushed at once.

—Mr. E. L. Wood, agent of the Franklin Company, Lewiston, has received orders from his directors to close at once the contract with Mr. J. W. Whitehouse for seven million bricks, five million of which are to be made and delivered this season. It is very evident that these bricks are not to be made to keep. They will be laid in mortar for a new mill, another season. Five millions of bricks are an immense number to make in one season, and there isn't another brickyard in the State, except the Franklin Company's, of that capacity. Mr. Whitehouse will probably add several machines.—[Journal.

—March has generally been a very favorable month for logging, and lumbering operations have been pushed in the woods of Northern Maine with much vigor up to the present time. On the Mattawamkeag about 35,000,000 feet have been cut, on the West Branch about 33,000,000 and on the East Branch about 20,000,000. These estimates are made on the basis of a wood scale. Add to these the cuts on the Piscataquis, Passadumkeag, and other tributaries of the main river, and there already have been harvested on Penobscot waters about 125,000,000 feet of logs, boom scale, during the winter just drawn to a close.

—Messrs. Joseph Oakes & Son, the well known shipbuilders, are about to make a new departure by way of docking accommodations. A dry dock, of one berth, will be built the coming season, at the westerly end of the caulking and repairing beach in front of the upper yard in Brewer. The plan has been made, and trenching will be commenced as soon as the ice leaves and the frost is out of the ground. The construction will be similar to that of other docks, bulkheads and a gate, with a powerful pump to free the dock from water as soon as the vessel has entered, although in this case, the elevation of the dock above low water mark will admit of a good part of the water running out through scuppers. The firm of Oakes & Son, have control of a double marine railway, a shipyard and a good repairing dock now, and the building of the new dock will give them first-rate facilities for all kinds of ship work.—[Commercial.

—The St. John (N. B.) Cotton Company was organized in that city last week by the choice of the following officers: President, J. H. Parks; Secretary, E. B. Ketchum; Directors, J. H. Parks, R. P. Starr, Alexander Shives, Thomas McAvity, Jr., and V. S. White. It was reported that 1,703 shares were already sold, on 1,462 of which the first call has been paid in. Two thousand tons of stone have been purchased and the contract let for laying the same and building the foundation walls. The engine, of about 500 horse power, was also purchased, and the contracts for the other machinery would be given out next week. It is intended to push on the whole of the necessary works vigorously. The plans of the building are in active preparation in the office of Mr. J. T. C. McKean, architect to the company, and will shortly be completed, when the erection of the building will be proceeded with without delay.—[St. John Sun.

NEWFOUNDLAND.—Matters in Newfoundland appear to be in an interesting condition. The Legislature of the Province is in session, and the Local Government has been able to announce the possession of a surplus. The construction of the railway is going on rapidly. The company undertaking the work is performing it with great energy. Operations were begun last August, and already the company has expended some \$750,000, and has something handsome and promising to show for the money. The building of the road bids fair to have a most beneficial effect on the progress of the Colony, which will become noted for its farming developments as well as for its fishing and mining enterprises. The Newfoundlanders are preparing to utilize in downright earnest the permission secured to settle the lands on what they call the French shore; and Mr. Blackman, Manager of the Newfoundland Railway Company, has fairly fired their imagination with his grand projects for securing the shortest possible line of mixed railway and steamship communication between the old world and the new, an important link in which is to traverse their own Island from east to west. Altogether Newfoundland seems to be taking quite a new departure.—[Cape Breton Advocate.

CANADIAN PIANOS AND ORGANS.—Those who wish to see good specimens of Canadian workmanship should examine the pianos and cabinet organs which are shown in Messrs. Flood's music warerooms, King street. They are produced at the works of the Dominion Organ and Piano Company of Bowman-

ville, Ont., and reflect great credit on the manufacturers. They also illustrate the perfection which this new branch of manufacture has reached in a short time. The best features of the best United States makes of instruments are reproduced; and while the eye and ear are abundantly gratified, the prices are such as to give satisfaction to the buyer. A gentleman who recently visited the Upper Provinces, and who has enjoyed exceptionally good facilities for observing the extent and resources of organ and piano factories in the United States was greatly surprised to find similar factories in Ontario so completely equipped for carrying on an extensive business. Of course, it is not to be expected that those who are newly manufacturing for four millions of people can have as large establishments as those who have been manufacturing for twenty to fifty millions for the thirty years; but there can be little doubt that the piano and organ manufacturers of Canada have made as rapid strides in a few years as were ever made by any class of manufacturers under similar circumstances.—[St. John Sun.

Railroad and Steamboat Notes.

....Steamer Mount Desert will make her first trip of the season to Mount Desert and Sullivan to-morrow (Saturday).

....Steamer Henry Morrison will commence her trips to Blue Hill and Ellsworth to-morrow (Saturday), making thereafter two trips per week until further notice.

....Steamship Scandinavian, of the Allan Line, recently arrived at Portland from Glasgow, brought with her other freight 3000 bags (12,500 bushels) of Scotch potatoes.

....Steamship Ontario, of the Dominion Line, sailed from Liverpool for Portland on the 10th inst. Among her cargo are 110 prize Hereford cattle, consigned to Messrs. Burleigh and Bodwell, of Hallowell.

—A schooner of 500 tons, owned by the builders and others, was launched at Bath on Saturday last by B. W. & H. F. Morse; also a fishing schooner of 102 tons, owned by Capt. J. A. Jewett and other Portland parties.

....The contractors for 500 miles of the Canada Pacific Railway, on the plains, have issued a notice calling for 5,000 men, to whom wages of \$2 per day will be paid, with every facility for getting cheap board in addition.

....The Grand Trunk Railway Company are talking of making arrangements for a line of steamships to ply between Portland and St. John and Portland and Halifax, for the carriage of freight and passenger traffic to and from the Maritime Provinces.

....The "Act to enable the Grand Southern Railway Company to extend their line and to amalgamate with or transfer to any other company" has passed the New Brunswick House of Assembly and been sent to the Legislative Council for concurrence.

....The annual report of the Sandy River Railroad gives the gross earnings for the past year as \$14,516; expenses, \$11,436; interest on debt, \$3000. The road carried 15,000 passengers, and 4,000 tons of freight. The road is two feet gauge, and its length is eighteen miles.

....The steamer Queen City, of the Bangor & Bar Harbor Line, is now being put in order at Bucksport preparatory to beginning her Bar Harbor trips. In case the departure of the ice from this port is long delayed, the steamer will make a few trips from Bucksport to the great watering place, but the prospect is that this port will be free from the ice embargo early enough for her first trip.

....The St. John Sun says it is reported that the Grand Southern people are considering the expediency of adding a section to their new bill for authority to lay a new track from Quinton's to Fairville, getting into the city over the new railway bridge at the falls, and thus escaping all trouble about the Carleton Branch. The New York capitalists interested in the Company have been communicated with and their answer will determine what action will be taken.

....The Bangor & Bar Harbor Steamboat Company are building, at Oakes' yard, an elegant steam yacht, designed for the use of private parties who wish to avoid a miscellaneous company in their summer jaunts for rest and recreation. The machinery is now being built in Boston, and the hull is nearly framed out and planked. The new boat will be swift, graceful, of superior construction and elegant appointments, and about the size of the well known steamer May Field; she will be off in April.

The Turner Hotel, Guilford, is to be enlarged the present season.

Hotels and Summer Resorts.

The Phillips Phonograph says there are already indications of a rush of summer visitors to the Lakes, the coming season.

The lease, furniture, fixtures, etc., of the Codman House, Oldtown, are offered for sale on account of the illness of the proprietor. The Codman is the only hotel in town and is one of the best stands in this section.

The St. Julian, Portland, is offered for sale by J. C. Proctor, of that city. The building is located on the corner of Middle and Plumb streets, contains 61 rooms for guests, large dining rooms, etc., and is heated by steam.

Capt. Herbert, proprietor of the McAdam Junction House, and also the Argyll Hotel at St. Andrews, has been making extensive improvements and repairs at both houses. The Argyll will open about the middle of next month.

Mr. Brown, late landlord of the Wesleyan Grove House at Northport, has purchased the Lake House in Jefferson, which is said to be one of the finest locations in Maine. The house is pleasantly situated at the head of Damariscotta Lake.

O. M. Shaw & Son will conclude their lease of the Falmouth House, Portland, this spring. During next summer they will devote their attention to their elegant West End Hotel at Bar Harbor, and in the fall Mr. Fred Shaw will take charge of a large hotel in a Western city.

Capt. O. A. Dennen, of the Kineo House, Moosehead Lake, having by recent additions and changes made his hotel one of the finest of its class in New England, proposes to make still further improvements before the opening of the coming season, among them being a tower and fire escape on the southeast corner of the house, and a new bowling alley.

The Thorndike Hotel, Rockland, under the management of the present proprietors, Messrs. H. C. Chapman and Berry Brothers, has become one of the finest hotels in the country, and an institution our people may well be proud of. The expense of refitting and refurnishing has been very large, and the results attained all that could be asked. There are an abundance of spacious, elegantly furnished rooms, with pleasant parlors, dining room and billiard room. The office is one of the finest in New England. Mr. Will R. Holmes, one of the best fellows in the world, presides here and shows every possible attention to guests. New tables of the latest pattern have been received for the billiard room, which is under the charge of Mr. Tony Fairfield, the right man in the right place. The table d'hôte is furnished with an elegance and richness unexcelled at any hotel this side of New York. Mr. Frank L. Richardson is chief de cuisine, and Kate Donahue pastry cook.—[Opinion.

Few are aware of the beautiful scenery bordering Spruce Creek, in the town of Kittery, which really is a fine, broad sheet of water and as expansive as the Penobscot when the tide is in. If you wish to see it by day, look from the hill west of Kittery Point bridge, but, better, take a boat some moonlight night and float from its head along the eastern shore until you reach the mouth of Barter's Creek. The spruces which once adorned its banks have long since disappeared, but there are stately elms, oaks, etc., with scattering orchards, abrupt headlands, and graceful slopes adorned with the greenest foliage, through which the soft summer breezes whisper enchanting memories of summer climes. Do not let us be ashamed of the name "Spruce Creek" because it is not so classical as the sacred Meles, along whose banks Homer once strayed and sung. This is the mighty Amazon compared with that to-day. If you choose to turn into Barter's, and proceed beneath the rustic bridge in the rear of the Pepperell House, you will meet the primitive growth and the sighing pines on the right and left; and if you go to the cupola of the hotel and look back over the course you came, you will see one of the most picturesque landscapes in New England.—[Cor. Biddeford Journal.

Nuggets.

. Trade in sawdust is done in New York to the extent of \$200,000.

. The State College Scientific Society will hold a session at Orono on April 19th.

. Loupcerviers and wildcats have been breaking into hen-coops in the very centre of the city of Halifax.

. The Boston Evening Star will be of increased magnitude after the first of April, and will have a Sunday edition.

. The property of the Stover Hill Mining Company, at Blue Hill, is advertised for sheriff's sale, at Ellsworth, on the 8th day of April.

*The Boston and Bangor Express Company have established a branch office in Ellsworth. Mr. John Suminsby has been appointed agent.

*The Norumbega Sportsmen's Club will hold weekly shoots during the season. The State shoot will be held in Bangor in September next.

*The Belfast Journal says there is a rumor that the Washington county snake has been found—in the boots of the editor of the Calais Times.

*The National Bell Telephone Company of Maine have declared a quarterly dividend of 2½ per cent. upon the capital stock of \$400,000, payable April 10.

*The stock of the Hercules Copper Company upon which the assessment of five cents per share has not been paid will be delinquent to-morrow (Saturday).

*The auction sale of delinquent Stewart stock will occur to-morrow (Saturday) afternoon at 2 o'clock at the Treasurer's office in Wheelwright & Clark's Block, this city.

*Over seventy thousand shares of stock in the Granger Mining Company are advertised to be sold at auction on April 1st, for non-payment of the assessment of five cents per share.

*Messrs. Sargent & Son, of Castine, have fitted up a dance hall over their store. They will put in a fine upright piano and rent the hall to private excursion parties coming to Castine during the summer.

*We have received Stockbridge's Musical Journal for March, containing the latest musical gossip and ten pages of simple but pleasing vocal and instrumental music. Published, at 60 cents per year, by Ira C. Stockbridge, Portland, Maine.

*Salmon seem to strike the coasts of the Maritime Provinces in the spring earliest between Halifax and Shelburne, the Lahave river carrying off first honors as a rule. Two salmon were caught in that river a fortnight ago, one of which weighed 18 lbs.

*A Branch of the Bangor & Moosehead Lake Telegraph Line will soon be extended to Katahdin Iron Works. The B. & K. I. Works Railway Company have offered to furnish and erect poles, and the work will be commenced as soon as the frost is out of the ground.

*The stockholders of the Mascot Mining Company hold a meeting at the Preble House, Portland, April 4th, to see if they will vote to increase the number of Directors from five to seven and also fill any vacancies which may be created by the passage of the foregoing article.

*During the present year there will be only two eclipses, both of the sun. A total eclipse will occur May 17, and an annular eclipse November 10. Both of these will be invisible in this locality. A transit of Venus over the sun's disc will occur December 6, and will be visible in Bangor.

*St. Nicholas for April is, as usual, full of interest for young America. "Brigham, the Cave Dog," is an account of a clever animal that was lost in the Mammoth Cave, but found his way out after wandering for thirty-six hours in the dark windings. Mr. E. S. Brooks contributes a pleasing comedy for children, which is easy to learn, not difficult to get up and does not require many speaking characters. The number also contains the usual amount of stories, illustrated articles, poetry, etc.

*Patents issued to Maine inventors under date of March 14th, 1882, reported for the MINING JOURNAL by Wm. Franklin Seavey, Solicitor of Patents, Bangor: John F. Chase, Augusta, Can Labeling Machine; Wm. Rowe, Biddeford, Permutation Lock; Lewis P. Sherman and Richmond H. Ingersoll, Biddeford, and George Moore, Berwick, Machine for drawing in Warp-threads; Josiah Dutton, Norway, Book Rest Attachment for School Desks. Whole number of patents granted for the week, 323.

*Any person in want of a musical instrument of any kind will find it to his advantage to call at A. M. Devereux's extensive establishment on Main street. Mr. Devereux has just received a large number of new pianos and organs of the best make. He now has on exhibition an elegant thousand dollar upright piano, made by Chickering. It is decorated in oriental style by a celebrated artist and this work alone is said to have cost the makers three hundred and fifty dollars. It is a most magnificent piece of furniture.

*The Report of the Department of Marine and Fisheries shows that there are in Nova Scotia 122 light stations having 124 light houses and exhibiting 136 lights; 10 light vessels; 11 steam fog alarms; 1 fog bell; 3 signal gun stations; 372 buoys of all kinds, and 13 stationary beacons and life boat stations. Tenders have been awarded for light houses at Crow Harbor.

Guysborough, and Westhaven Island, Lunenburg. In addition to this the estimates for the ensuing year provide for the building of new light houses at Jerome Point, Richmond, and Ingonish Harbor, Victoria county.

*The Century for April contains a great many valuable papers. Among them may be mentioned Mme. Ragozin's "Russian Jews and Gentiles." The writer is a Russian lady, now living in New York. A reply to this paper is to be contributed to the May Century by Miss Emma Lazarus, who in this number has a significant paper, "Was the Earl of Beaconsfield a Representative Jew?" Mrs. Mitchell's third illustrated paper on sculpture is devoted to "The Age of Praxiteles." "Some American Tiles" is the title of a paper by F. D. Millet descriptive of processes and results at the Chelsea (Mass.) Tile Works. The rapid improvement in the American product may be inferred from the fact that whereas a few years ago there was not a decorative tile made in this country, in 1880 these specimens took the gold medal at Crewe, "over all the famous pottery manufacturers of the United Kingdom." Richard Grant White contributes his second paper on the "Opera in New York." "Topics of the Time" includes several papers on various subjects. One, "Science in American Colleges" is a very sensible article and should be read by all interested in education. The publication of Thomas Carlyle's "Irish Journal" will begin in the May Century.

New Incorporations.

The Shaw Relief Valve Co.; organized at Portland, Feb. 21; capital stock \$200,000; par value of shares \$10. Purposes—to manufacture, buy, sell, own and deal in Relief Valves. President, J. Cullen Ayer, Boston; Treasurer, Alonzo Warren, Boston.

The Fort Popham Summer Resort Association; Bath, Feb. 22; capital \$30,000; paid in \$3,330; par value of shares \$10. Purposes—to establish a summer resort, erect and conduct hotels, other buildings, and wharves at Hunnewell's Point, in Phillipsburg. President and Treasurer, P. O. Vickery, Augusta.

The Carmine Hill Gold and Silver Mining Co.; Portland, Feb. 20; capital \$500,000; paid in \$15; par value of shares \$5. Purposes—to carry on the business of mining in all its branches. President, Saml S. Campbell, Boston; Treasurer, Chas. M. Campbell, Boston; Directors, S. S. Campbell, C. M. Campbell, and Otto F. Gebrieke, of Sonora, Mexico.

The Granite Silver Mining Co.; Saco, March 3; capital \$225,000. Purposes—mining, smelting and dealing in gold, silver and other ores, and all other business connected therewith. President, Chas. E. Folsom, Dorchester, Mass.; Treasurer, Stephen P. Wardwell, Cambridge, Mass.

The Golden Treasure Mining Co.; Portland, March 3; capital \$50,000; par value of shares \$5. Purposes—mining and quarrying for ores and minerals, smelting and reducing the same, and all other business connected therewith. President, Joseph K. Baker, Dennisport, Mass.; Treasurer, Clarence F. Whitaker, North Adams, Mass.

The New England Lubricating Co.; Portland, March 9; capital \$100,000. Purposes—manufacturing and selling lubricating compounds. President, Geo. H. Merrill, Boston; Treasurer and Secretary, C. W. Scott, Boston.

The Rye Valley Placer Co.; Portland, March 9; capital \$50,000; par value of shares \$2.50; business to be carried on at Portland in connection with operations in Oregon and elsewhere. Purposes—to acquire, purchase, lease, own and hold mines and mining property, placers and water rights; to acquire, purchase, lease, own, hold, construct and maintain flumes, dams and ditches; to mill, smelt or otherwise to reduce ores to bullion; and to carry on the business of placer and quartz mining in all its branches. President, Benjamin F. Caldwell, Concord, N. H.; Treasurer, John W. Drow, Concord.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 22, 1882.

	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
NAME.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Alouez.....	2½	3	2½	2½	2½	2½	2½	2½	2½	2½	2½	2½
Atlantic L. S.....	13½	14½	13½	14	13½	14	13½	15	14½	15	14½	15
Atlas.....	...	...	...	...	...	...	...	...	...	...	...	...
Blue Hill Copper.....	...	...	...	...	...	...	...	...	...	...	...	...
Brunswick.....	11	13	11	13	11	13	10	12	10	13	13	13½
Calumet & Hecla.....	235	235	232	...	236	236½	240	245	240	241	240	251
Catalpa.....	25c	50c	½	56c	47½c	50c	45c	½	45c	½	45c	½
Central.....	...	...	...	...	...	...	...	...	...	...	...	...
Copper Falls.....	...	3	...	3	...	2½	...	3	...	3	2½	3
Contentment.....	...	...	...	...	...	...	...	...	...	...	...	...
Douglas.....	...	...	...	...	...	...	...	...	...	...	...	...
Dana.....	...	...	...	...	...	...	...	...	...	...	...	...
Duncan Silver.....	½	¾	...	...	...	...	...	¾	...	¾	...	...
Empire.....	...	...	...	...	...	...	...	...	...	...	...	...
Franklin.....	10½	11	11	11½	11	11	11	11	11	11	11	11½
Harshaw.....	2½	3	2½	3	2½	3	2½	3	2½	3	2½	3
Huron.....	1½	1½	1½	2	1½	2	1½	1½	1½	2	1½	2
Hanover.....	...	...	...	...	...	...	...	...	...	...	...	...
Humboldt.....	...	...	...	...	...	...	...	...	...	...	...	...
International.....	...	...	...	...	...	...	...	...	...	...	...	...
National.....	1½	1½	2	2	2	2	2	2	2	2	2	2½
Osceola.....	30	32	31	32	31	32	31	32	31	32	31½	33
Pewabic.....	11½	12½	12½	12½	12½	12½	12½	13	12½	12½	12½	12½
Phoenix.....	...	...	...	...	...	...	...	...	...	...	...	...
Pontiac.....	...	...	...	...	...	...	...	...	...	...	...	...
Quincy.....	44	45	45½	45½	45½	46	45½	46	45½	46	45	46½
Ridge.....	...	...	...	...	...	...	1	1	...	1	...	1
Silver Islet.....	...	20	21	21	22	20	21	19	23	18	22	...
Star.....	...	...	...	...	...	...	...	...	...	...	...	...
Sullivan.....	¾	1½	1	1½	1	1½	1	1½	¾	1	1½	1½

PALACE CAR TOUR TO CALIFORNIA

Leave Boston April 17th, 43 days' tour, visiting the principal places along the route. Price will include travel, hotels, guides, etc. For circulars address,

WM. E. BROWN, 21 Main Street, Bangor.

SPECIAL NOTICE

— TO —
Manufacturers,
Merchants,
Miners, and
Capitalists.

THE MAINE MINING JOURNAL, hitherto devoted mainly to the mining interests of the New England States and Provinces, will in the future introduce other departments covering the

Railroad, Manufacturing, and such other INDUSTRIAL INTERESTS as may assist in the developing and building up of the State of Maine and Provinces.

The natural advantages of this section as a manufacturing center are not excelled by any other district in the country. It has most

Magnificent Water Powers, and easy communication by water and rail with the principal markets of the world.

THE MINING JOURNAL will lend its aid toward the development of these vast and varied resources, and will endeavor to furnish fresh and reliable information relating to the manufacture of

Cotton and Woolen Goods,
Boots and Shoes, Canned Goods,

Bricks, Lumber, Paper, Etc.

the Quarrying of

Granite, Marble, Limestone,
and the Mining of

Gold, Silver, Copper, Tin, Lead,
Iron, Etc.;

and it will be our aim to bring the merits and advantages of these various enterprises to the attention of capitalists.

If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

Agents wanted. For terms, address
THE MAINE MINING JOURNAL,

BANGOR, MAINE.

BECKWITH'S GUIDE — TO THE — Great Mineral Districts — OF —

NEW MEXICO.

Gives the most accurate description of the country and its mineral wealth yet published. Single copies, 10 cents. Special rates to dealers. Address,
D. A. BECKWITH, Socorro, N. M.

NEW MEXICO

Future Great Mineral District OF THE WORLD,

And if you would learn all about its mineral wealth subscribe for the

SOCORRO MINER,

Weekly and Semi-Weekly,

Terms—Weekly, \$3.00 per year; 6 mos., \$2.00
Semi-Weekly, \$5.00 per year; 6 mos., \$3.00

Invariably in advance.

Address, D. A. BECKWITH,
Socorro, New Mexico.

FOR SALE.

The Valuable Property known as the Bakeman Estate,

IS OFFERED FOR SALE.

Price, - \$10,000 cash.

The property consists of over 500 acres of mineralized land, adjoining the celebrated Cape Rosier Mining property, and is acknowledged by the most celebrated experts of this country to contain, not only the continuation, but the richest part, of the Cape Rosier veins

George H. Blake, No. 93 Exchange Street, Portland, Maine, is the sole agent in charge of this property, to whom all communications may be addressed.

THE COST OF ADVERTISING.

For any responsible advertiser, making application in good faith, we prepare and furnish a written estimate, showing the cost of any proposed advertising in the leading Newspapers of the United States and Dominion of Canada.

We prepare and exhibit printed proofs of any proposed advertisement.

For the preparing of estimates no charge is made, and the applicant is placed under no obligation to transact his advertising business through us unless it appears to him that by doing so he will best advance his own interests.

A copy of the advertisement, a list of the papers, the space the advertisement is to occupy and the time it is to appear, should all be given with the application for an estimate of the cost.

When an advertiser does not know what he wants or what he ought to do, he can designate some sum of money within which he wishes to limit his expenditure; this will enable us to prepare for him such a list of papers as will be the best for his purpose, within the limits which he prescribes.

Send 10c. for 100-page pamphlet. Address

GEO. P. ROWELL & CO.

Newspaper Advertising Bureau,
(Printing House Square. Opposite Tribune Building.)

10 Spruce St., New York.

THE Daily Graphic

Has the best Financial and Mining News of any paper in New York.

Terms, \$12 per Year, Postage Paid.

Address, THE DAILY GRAPHIC,
New York, N. Y.

Bucksport and Bangor R. R.

CHANGE OF TIME, Feb. 20, 1882.

	A. M.	P. M.
Leave Bucksport,	5.30	5.00
Arrive Bangor,	6.42	6.05
Leave Bangor,	7.55	7.15
Arrive Bucksport,	8.45	8.25

A mixed train leaves Bangor at 11.00 A. M. on Mondays, Wednesdays and Fridays.

Leaves Bucksport Tuesdays, Thursdays and Saturdays, after arrival of steamer.

The 5.30 A. M. and 5.00 P. M. trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.55 A. M. and 7.15 P. M. trains from Bangor await arrival of trains from the west.

STAGE CONNECTIONS.—At Bucksport, daily, for Blue Hill, Ellsworth, Penobscot, Castine, Sedgwick and Brooksville.

L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this line will leave Franklin Wharf, Portland, at 7 P. M., and India Wharf, Boston, at 5 P. M., daily. (Sundays excepted.)

CONNECTIONS are made at Portland with GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE CENTRAL, KNOX & LINCOLN Railroads, and with Steamers of the BANGOR & MACHIAS LINE; and at Boston with all lines for points South and West.

Tourists will find this one of the finest OCEAN TRIPS on the New England coast.

WM. WEEKS, J. B. COYLE, JR.,
Agent, Boston. Gen. Ag't. Portland

Boston, Portland and Machias

EXPRESS.

After the First of November the undersigned will attend to such Express matters as may offer between Machias and Portland direct, and to Boston via Sanford Line of Steamers from Rockland.

Good connections throughout New England, and to all points West and South.

Main Offices: 75 Kilby Street, Boston, and 65 Exchange Street, Portland.

Business solicited and prompt attention guaranteed at fair rates.

GILBERT, CRANDON & CO.

BANGOR AND BLUE HILL STAGE NOTICE.

On and after December 1st, 1881, there will be only one Stage a day between Bucksport and Blue Hill.

Stage leaves Bucksport at 9.30 A. M., or on arrival of morning train from Bangor.

Stage leaves Blue Hill at 12 M. to connect with 5 o'clock train for Bangor.

HILL, GOOGINS & CO.
Bucksport, December 1st, 1881.

ROBINSON HOUSE

Livery, Hack and Boarding Stable,
MAIN STREET, BUCKSPORT, ME.

HILL, GOOGINS & CO., - Proprietors.

Good reliable horses for ladies' and family use, furnished to order. Hacks for pleasure parties or funerals. Cons and see us and the prices will be all right. Orders left at the Robinson House and Stable.

PENDLETON HOUSE

Blue Hill, Me.

IS NOW OPEN TO THE PUBLIC

Livery Stable connected with the House.

JOHN M. MERRILL, Proprietor.

ROBINSON HOUSE,

Bucksport, Me.

J. F. MOSES, - Prop.



Swinney's Ointment

A RELIABLE REMEDY FOR ALL DISEASES OF THE SKIN, SUCH AS TETTERS, PIMPLES, SORES, BLOTCHES, RASH, ERYSIPELAS, RINGWORM, BARBERS' ITCH, REDNESS OF NOSE AND FACE, BURNS, CUTS AND SCALDS.

OF THE SKIN CAN RESIST THE SOOTHING AND HEALING POWER OF SWAYNES' OINTMENT. ON ACCOUNT OF LAYING THE INTENSE ITCHING AND INSURING SWEET REPOSE, IT IS KNOWN BY MANY AS THE GREAT CURE FOR ITCHING PILES.

DR. SWAYNE & SON, PHILA.

SOLD BY ALL DRUGGISTS.

WELL BORING, ARTESIAN WELL DRILLING & MINERAL PROSPECTING MACHINERY and how to use, is fully illustrated, explained and highly recommended in "American Agriculturist," Nov. No., 1879, page 455. Send for it. Portable, low priced, worked by man, horse or steam power. Needed by farmers in every county. Good business for Winter or Summer and very profitable. Makes wells in earth or rock anywhere. We want the names of men that need wells. Send stamp for illustrated price list and terms to Agents, Pierce Well Excavator Co., 29 Essex Street, New York, U. S. A.

ESTABLISHED 1846.
THE BANKER'S MAGAZINE.
Monthly, Five Dollars per year.
THE BANKER'S ALMANAC AND REGISTER,
Semi-annually, \$3; Singly, \$2.
B. HOMANS, Editor and Manager, 251 Broadway New York.

PIANOS!
JUST RECEIVED.

Chickering & Sons Pianos,
Six different styles; the finest assortment ever received in the State of Maine.
The metallic upright action is the best in the world.
IVERS & POND PIANOS!
One 7 1/2 octave square; one 7 1/2 octave upright.

EMERSON PIANO CO.,
One 7 1/2 octave upright; three 7 1/2 octave squares. A full stock of

WILCOX & WHITE
ORGANS

All new and the best in the market, ranging in price from \$75.00 to \$300.00 each.
Sheet Music and Musical Instruments.
Now is your time to get first-class new goods; write or call for prices and terms.

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MASONIC BLOCK,
Main Street, Bangor, Maine.

H. A. TRIPP,
Counsellor & Attorney at Law
BLUE HILL, MAINE.
Special attention paid to Mining titles and rights.

O. H. TRIPP,
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BLUE HILL, MAINE.

JAMES G. FOSTER, C. C. WM. B. FOSTER
FOSTER & FOSTER,
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No. 3 Prince Street, Halifax, N. S.

Special attention paid to mining titles and rights, the bonding and sale of mining properties, and all other legal business throughout the Province.

FIRE BRICK
FOR SMELTING FURNACES,
Akron Salt Glazed Drain Pipe.
FISKE & COLEMAN,
Manufacturers and Importers,
72 Water Street, Boston.

We have made the wants of mining companies our study.

Copper, Zinc and Lead Ores
WANTED.

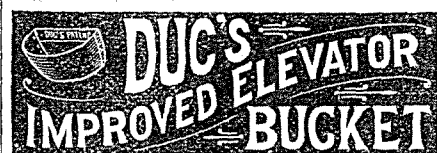
Highest market prices paid. First-class, responsible buyers. Advances made on cargoes. Send analyses, amount per month, samples (25 or 50 lbs.). Address, B. BARNES, Jr., Broker, 50 Exchange Street, Portland, Me.

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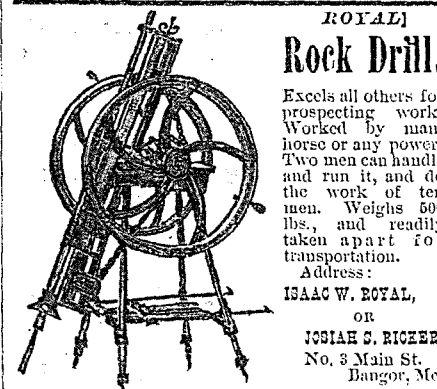
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JAS. D. GLYNN. EDW. W. REYNOLDS.

DAVID BUGBEE & CO.
Account Book Manufacturers,
Kenduskeag Bridge, Bangor, Me.

Also furnish Mining Stock Ledgers, Journals, etc Every description of Stationery constantly on hand. Paper ruled to pattern.



For use in GOLD AND SILVER ores, and any material. Extra strong and durable. No corners to catch. Do not buy imitations.
Address CONTINENTAL IRON WORKS, Sole Manufacturers, Brooklyn, N. Y.



ROYAL
Rock Drill.

Excels all others for prospecting work. Worked by man, horse or any power. Two men can handle and run it, and do the work of ten men. Weighs 500 lbs., and readily taken apart for transportation.
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ISAAC W. ROYAL,
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JOSIAH S. RICE,
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N. H. BRAGG & SONS,
Wholesale & Retail Dealers in
IRON & STEEL
Blacksmith's Tools, Cumberland Coal.
AGENTS FOR LA BELLE CAST STEEL.
No. 4 Broad Street, Bangor.

G. W. MERRILL & CO.,
Manufacturers and Dealers in
All Kinds of FURNITURE.
Feathers, Mattresses, Upholstery Goods.
&c., &c. Prices as low as at any house in New England.
63 & 65 Main St., Bangor.

[ESTABLISHED 1845.]

THE HAZARD MFG. CO.,
Manufacturers of
IRON AND STEEL



OFFICE AND WORKS, WILKES-BARRE, PA. OFFICE AND WAREHOUSE, 87 LIBERTY ST., N. Y.
Send for Circular.

SPECIAL NOTICE.

Harrington Silver Mining Co.

The Stockholders in the above company are hereby requested to send to the Secretary their trustee receipts and receive stock for the same, in order that arrangements may be made for resuming active work at the mine.

Per order of the President,
EUGENE H. DAKIN,
Secretary.

Bangor, February 2d, 1882.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER

OF THE

Hercules Copper Company,
OF PENOBSCOT, ME.

135 Middle Street, Portland, Maine.

PORTLAND, ME., Feb. 7, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 7th day of February, 1882, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, Feb. 23th, 1882, by stockholders of record at the close of business, February 15th, 1882, after which date no stock will be transferred until the assessment thereon shall have been paid.

Any stock upon which the assessment shall remain unpaid on the 25th day of March, 1882, will be delinquent and will be advertised for sale at public auction and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale will be sold.

The stock of this Company will be exchanged, share for share, for the stock and club receipts of the Hercules Mining Co.

By order of Board of Directors,
JOHN N. LORD, Treasurer.

Just the Thing that Fifty Millions of People Want!

CUSHING'S PERFECTION INK POWDERS!

The Best Selling Article Yet Offered for Agents. Something You can Sell at Every House!

One package will make one pint Brilliant Writing Ink, with the addition of boiling water only; will make Copying Ink or Rubber Stamp Ink. Full directions with each package. NAMES OF COLORS:—Orange, Carmine, Scarlet, Red, Crimson, Purple, Violet, Green, Blue, Brown, Blue-black, Black. Price 10 cents per package by mail, or 15 cents per dozen. Wholesale and retail by

A. M. ROBINSON, Jr., Agent, Apothecary, Bangor, Maine.
To whom all orders should be addressed.

H. N. PINKHAM, STOCK BROKER,

Member of Boston Mining and Stock Exchange,

35 CONGRESS STREET, Room 29, BOSTON.

Particular attention paid to orders in Maine Mining Stocks.

Reed's Sectional Covering,

For Boilers, Steam and Water Pipes.

It is cheap, durable, and the best non-conductor of heat of any covering made. It can be taken off and replaced on the pipes any number of times without injury to the covering. Any person can put it on the pipes. SEND FOR A CIRCULAR.

J. A. LOCKE & SON, 40 Courtlandt Street, New York.

ESTABLISHED 1871.

Maine State Assay Office.

FRANK L. BARTLETT,

Assayer and Chemist for the State of Maine.

Office and Laboratory, 385 Congress Street, Portland, Me.

All assays made at the Maine State Assay Office are duplicated and will be guaranteed correct. Samples always retained and in case of doubt will be submitted to the U. S. Assay Office for adjustment.

Samples of Ores and minerals forwarded will receive attention from Mr. Bartlett personally.

Full and complete analyses of ores and all mineral substances will be a specialty. Having a laboratory complete in every particular and fitted with all the modern improved apparatus, superior facilities are afforded for chemical work either medical, legal, microscopical or analytical.

Maine ores and all the leading European and Western ores can be seen at the Maine State Assay Office. Mining men and others are invited to call. Send for circular.

R. H. GAIRDNER,

GENERAL BROKER and MINING AGENT.

28 St. Francis Xavier St., Montreal.

R. M. RAYMOND, A. B., 1st Asst

BERTRAM L. SMITH,

Counsellor at Law,

BANGOR, MAINE.

Will attend to business in all parts of the State.

WM. S. CLARK.

JOHN R. BOTHWELL.

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DEVOTED TO THE MINING AND INDUSTRIAL INTERESTS OF THE NEW ENGLAND STATES AND BRITISH PROVINCES.

[Entered at the Post Office in Bangor, Maine, as second-class mail matter.]

5.—13.—118.

BANGOR, MAINE, MARCH 31, 1882.

{ \$2 per Year;
6 Cents per Copy.

W. FRANK STEWART,
Practical Geologist and Mining Engineer.

Parties who may desire my services as a mining geologist, in any portion of North America, can confer with me by writing to the care of the Mining Record, No. 61 Broadway, New York; or to the MAINE MINING JOURNAL, Bangor, Me.

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S. C. BLANCHARD, President.

WM. M. JEWETT, Treasurer.

JOHN M. MERRILL, Secretary.

J. H. MOYLE, Superintendent.

Cherryfield Silver Mining Co.

OFFICE, CHERRYFIELD, ME. MINES, CHERRYFIELD, ME.

Capital \$500,000. 100,000 Shares. Par Value \$5.00
Unassessable.

SAMUEL N. CAMPBELL, President.

WM. FREEMAN, Treasurer.

WM. FREEMAN, Secretary and General Manager.

Directors—JAMES A. MILLIKEN, SAMUEL N. CAMPBELL and WM. FREEMAN, of Cherryfield; THOMAS DALBY and F. H. WILLIAMS, of Boston. WM. A. LEONARD, Supt.

Copperopolis Mining Company.

OFFICE, 4 SEARS' BUILDING, BOSTON, MASS.

Capital, \$500,000. Par Value of Shares, \$2.50.
Unassessable.

GEO. E. HARRINGTON, President.

S. L. SYMONDS, Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—GEO. E. HARRINGTON, GEO. WEST, FRANCIS TECKERMAN of Salem, Mass.; P. MULLAN, L. W. HODGKINS of Ellsworth, Me. JOHN SHOENBAR, Superintendent.

Deer Isle Silver Mining Co.

OFFICE, PORTLAND, ME. MINES, DEER ISLE, ME.

Capital, \$500,000. 100,000 Shares. Treasury Fund, 52,000 Shares.

A. H. HARRIS, President.

GEO. F. GOULD, Treasurer.

GEORGE F. GOULD, Secretary.

DIRECTORS—A. H. Harris, of New York; Nathan Cleaves and Frank C. Crocker, of Portland; C. W. Bryant, of Deer Isle and George D. Greeley, of Boston.

S. Z. DICKSON, Superintendent.

Gouldsboro Silver Mining Co.

OFFICE, ELLSWORTH, ME. MINES, GOULDSBORO, ME.

Capital, \$500,000. 100,000 Shares. Par Value, \$5.00.

Judge A. P. WISWELL, President.

C. C. BURRILL, Treasurer.

J. B. REDMAN, Sec'y. FRANCIS WORCESTER, Manager.

DIRECTORS—A. P. Wiswell, C. C. Burrill and Eugene Hale, all of Ellsworth.

W. I. VALENTINE, Superintendent.

Milton Mining Company.

OFFICE, 4 SEARS BUILDING, BOSTON, MASS.

Mines, West Sullivan, Me.

Capital, \$1,000,000. 200,000 Shares. Par Value, \$5.00

WM. D. LEWIS, Pres't.

GEO. E. HARRINGTON, Treas.

HORACE T. STARR, Secretary.

Directors—WM. D. LEWIS, GEO. E. HARRINGTON, C. F. MACKENZIE, WM. J. MANN, GEO. WEST, HENRY R. GARDNER and GEO. F. ROPES.

JOHN SHOENBAR, Superintendent.

Mammoth Copper Mining Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

250,000 Shares.

Par Value, \$2.00.

EUGENE M. HERSEY, President.

JOHN R. MASON, Secretary.

G. W. PICKERING, Treasurer and Transfer Agent.

W. D. LEWIS, Assistant-Treasurer and Secretary.

DIRECTORS—E. M. HERSEY, T. N. EGERY and SAMUEL STERNS, of Bangor; W. D. LEWIS, of Boston and CHAS. DUFF, of Blue Hill.

CHARLES DUFF, Superintendent.

Pine Tree Silver Mining Co.

OFFICE: 24 BROAD STREET, NEW YORK; MINES, SULLIVAN, MAINE

Capital, \$500,000.

Par Value of Shares \$5.00.

Unassessable.

GEN. JOHN M. CORSE, President.

ROBERT L. CUTTING, JR., Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—Col. CHAS. H. LEWIS, GEN. JOHN M. CORSE and ROBERT L. CUTTING, JR., of New York.

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OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

HON. FREDERICK M. LAUGHTON, President.

C. F. BRAGG, Treasurer.

C. F. BRAGG, Secretary.

DIRECTORS—Frederick M. Laughton, F. W. Hill, C. F. Bragg and Thomas White, of Bangor; S. N. Stockwell and G. B. Putnam, of Boston.

DANIEL DUNN, Superintendent.

Sullivan Mining Company.

OFFICE, 17 Tremont Bank Building, BOSTON, MASS.,

MINES, SULLIVAN, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

GEORGE B. BROWN, President.

F. R. NOURSE, Treasurer.

CHARLES L. PERRIN, Secretary.

DIRECTORS—Geo. B. Brown, B. S. Grant, C. F. Farrington, J. G. Russell, Dudley R. Child, E. A. Birchard and Frederic R. Nourse.

Twin-Lead Mining and Smelting Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

125,000 Shares.

Par Value, \$4.00.

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SAMUEL STERNS, Vice President.

JOHN R. MASON, Secretary and Treasurer.

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Directors, Jas. W. Davis, Ellsworth, Me.; M. Donelan, East Surry, Me.; Dr. L. W. Hodgkins, Ellsworth, Me.; Major General Conyers Tower, England; Hon. Jas. F. Davis, Mayor of Ellsworth; A. W. Clark, H. B. Mason, Ellsworth, Me.

M. DONELAN, Supt.

YOUNG HECLA

Mining and Smelting COMPANY.

Office at Bangor, Me. Mines at Blue Hill, Me.

Capital, \$500,000.

100,000 Shares. Par Value, \$5.00 each. Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor, Me.; Vice President, Charles Hamlin, Bangor; Treasurer, C. P. Wiggins, Bangor; Secretary, C. P. Wiggins, Bangor.

Directors—John S. Jenness, Charles Hamlin, Wm. D. Swazey, P. M. Laughton, Ruel Smith, Horace P. Tobey and Frank H. Williams.

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BLUE HILL CENTRAL

Mining and Smelting COMPANY.

OFFICE.....BANGOR, ME.
MINES AT.....BLUE HILL, ME.

CAPITAL, \$500,000.

100,000 Shares. Par Value, \$5.00. Treasury Fund, 30,000 Shares.

Hon. Wm. C. Marshall, of Belfast, President; H. J. Preble, Esq., Vice-President; S. P. Johnson, Secretary and Treasurer; Directors—Hon. Wm. C. Marshall, H. J. Preble, Esq., Samuel R. Prentiss, J. S. Jenness and M. Preble.

Silver Hill Mining Company.

Office, 11 CENTRAL STREET,

Room 4, Boston.

Mines at Garland, Me.

Capital, \$500,000. 200,000 Shares. Par value, \$2.50. 25,000 Shares in Treasury.

President, John F. Hudson, Boston; Treasurer Chas. E. Parent, Boston; Clerk, Geo. A. Mudge Portsmouth, N. H.

Directors—John F. Hudson, Geo. A. Goodyear and Chas. E. Parent, of Boston; Geo. E. Hodgdon, of Portsmouth, N. H.

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Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.

President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

EXETER SILVER MINING COMPANY,
Exeter, Me.

Capital, \$500,000. Shares \$5 each, unassessable; 40,000 shares in the Treasury.

President, D. N. Estabrooks; Vice President, J. Y. Richardson; Secretary and Treasurer, J. A. Blanchard. Directors—D. N. Estabrooks, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Lane, of Oldtown; — Sargent, of Brewer, and Charles Greenwood, of Cornina.
Office at Oldtown, Me.

FAVORITE MINING COMPANY.

Bluehill, Me. Incorporated July 1, 1881.

Capital, 500,000 Shares, \$5 each; assessable. President, A. E. Herrick, Bluehill, Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

FANEUIL HALL & SULLIVAN MINING CO.
Incorporated Feb. 1880.

Capital, \$500,000, divided into 100,000 shares, forever unassessable.

Company's office at the Mine, West Sullivan.

President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Farum, F. W. Morrill and F. S. Tuttle, Boston; A. A. Hayward, Bar Harbor, Me.
A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY
Blue Hill, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur's Newman, of Portland; Roderick H. Candage, of Blue Hill.

McFARLAND SILVER MINING COMPANY
Hancock, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F. A. McLAUGHLIN, Supt.

ROBERT EMMETT SILVER MINING CO.
Egypt Bay, Hancock, Me. Incorp. July, 1879

Capital, \$400,000; Shares, \$10 each.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

SNOW SILVER MINING COMPANY,

Bucksport, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
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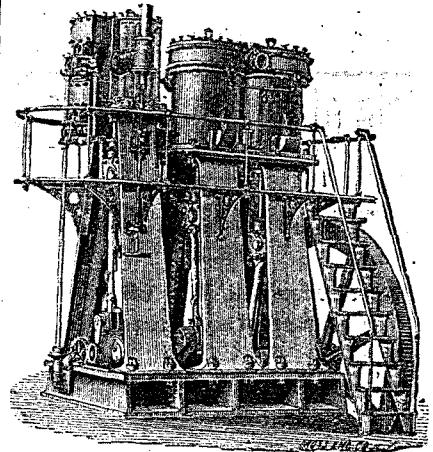
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M. S. GIBSON, Vice President, Portland.

F. H. WILLIAMS, Treasurer, Bangor

C. W. HOBBS, Secretary, Portland.

DIRECTORS:

Hon. F. M. Laughton, F. H. Williams and John S. Jenness of Bangor; M. S. Gibson of Portland, and E. H. Osborne of Boston.

SUPERINTENDENT:

J. M. JOHNSON, Gorham, N. H.

FINANCIAL AGENTS;

F. H. WILLIAMS & CO., Boston.

To Contractors and Miners.

Proposals will be received at the office of the Fancut Hill Mining Co., Sullivan, for ten days from date, for driving a crosscut fifty feet more or less. The company will find one Ingersoll Rock Drill and also find air for same, and sharpen all tools; the contractor to pay all losses on tools or make the same good. Ten feet can be driven per week with ease. The contractor to furnish all explosives and to put the rock into the bucket ready for hoisting. All supplies will be furnished by company at cost.

For further particulars inquire at the office.

A. A. HAYWARD, Supt.

Sale of Delinquent Stock

YOUNG HECLA MINING and SMELTING CO.

Mines at Blue Hill, Me. Office, No. 12
West Market Sq., Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, No. 12 West Market Square, Bangor, Me., on Friday, the fourteenth day of April, 1882, at 11 o'clock A. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is five (5) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued, are as below indicated in their appropriate column.

No. of Certificate.	Name.	No. of Shares.
No. 19.	C. P. Wiggin, Trustee.....	100
" 24.	C. P. Wiggin, Trustee.....	100
" 32.	C. P. Wiggin, Trustee.....	100
" 33.	C. P. Wiggin, Trustee.....	100
" 37.	C. P. Wiggin, Trustee.....	100
" 38.	C. P. Wiggin, Trustee.....	100
" 56.	C. P. Wiggin, Trustee.....	100
" 57.	C. P. Wiggin, Trustee.....	100
" 114.	A. P. Wiswell.....	50
" 125.	C. P. Wiggin, Trustee.....	100
" 160.	John E. Conlon.....	100

1,500

CHARLES P. WIGGIN, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER
OF THE

Young Hecla Mining and Smelting Company.

Mines, Blue Hill, Me.

Office, 12 West Market Sq., Bangor.

BANGOR, ME., March 27, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 20th day of March, 1882, an assessment of five (5) cents per share was levied upon the capital stock of this corporation payable to the Treasurer on or before the 15th day of April, 1882.

Any stock upon which the assessment shall remain unpaid on the 15th day of April, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates that payment may be endorsed thereon.

By order of the Board of Directors,

CHARLES P. WIGGIN, Treasurer.

ELLSWORTH FOUNDRY & MACHINE CO.,

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Maine Mining Journal,

Bangor, Maine.

OFFICE OF

Milton Mining & Milling Co.

No. 4 SEARS BUILDING.

Boston, March 2, 1882.

By vote of the Stockholders, at a special meeting held at Portland, Maine, March 1, 1882, the property and assets of the Company were transferred to the MILTON MINING COMPANY, a corporation chartered by special act of the Legislature of Maine, approved March 17, 1881. An equal number of shares of the new company will be issued, share for share, to the holders of the stock of the Milton Mining and Milling Company, on surrender of the old stock to the Treasurer, which must be done within thirty days from this date.

CHARLES H. LEWIS, President.

ASSESSMENT NOTICE.

Milton Mining Co.,

Location of Mine and Works,
West Sullivan, - Maine.

Notice is hereby given that at a meeting of the Board of Directors, held on the first day of March, 1882, an assessment of ten (10) cents per share was levied on the Capital Stock of the Corporation, payable immediately to the Treasurer of the Company, No. 4 Sears Building, Boston, Mass.

Any stock upon which the above assessment shall remain unpaid on the 31st day of March, 1882, will be delinquent, and advertised for sale at public auction, and unless payment is made before, a sufficient number of shares of said stock will be sold to pay the delinquent assessment, together with the cost of advertising and expenses of sale.

By order of the Board of Directors,

GEO. E. HARRINGTON, Treasurer.

Office, 4 Sears Building, Boston, March 1, 1882.

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Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

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E. M. BLANDING, EDITORS.
W. F. BLANDING,

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

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Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, MARCH 31, 1882.

The Kennebec Reporter estimates the ice cut on the Kennebec this season as about 900,000 tons.

The drafting of the plans for the route of the proposed Aroostook Extension of the Maine Central Railroad will be completed about April 1st.

We are glad to note the interest which the press of the State have generally taken in the Geological Survey question, and we have accordingly devoted a portion of our editorial space this week to reproducing a few of their opinions.

The Belfast Journal says that Mr. N. H. Mathews, of that city, is receiving very encouraging reports from his mines in Summit county, Colorado. Mr. Mathews, in company with his brother and Messrs. Sargent and West, will leave for Colorado the last of April.

The unjust law requiring foreign mining companies doing business in Massachusetts to pay a tax of one-tenth of one per cent. upon their capitalization has been repealed by the Legislature. Under the new law recently passed and approved by the Governor, the tax is reduced to one-fortieth of one per cent., no company to be liable for over \$300 per annum.

Six million pounds of plumbago are annually imported into the United States and it is estimated that the home production in New York, Pennsylvania, Canada and elsewhere equals this amount. This valuable material is used principally in the manufacture of lead pencils, stove polish and crucibles. Its market price varies, according to quality, from \$25 to \$75 per ton.

The Atwood Lead Company, of Portland, are about to put into their works a furnace for the reduction of copper ores, the sulphur from which will be used in the manufacture

of sulphuric acid. The copper ore will be brought from Canada, and arrangements looking toward cheap transportation are now being made with the Portland & Ogdensburg Railroad Company. The new furnace will, it is expected, be ready to start up in about two months.

Unmistakable signs of the coming boom in Eastern mining interests are already visible. And now that those who have closely watched the progress of events are convinced that it is surely coming, it is best not to hurry it along too fast. In view of the satisfactory results of the development work being pushed vigorously forward day by day, and the cheering prospects ahead; the longer it is delayed the more genuine will be its character and the more lasting its beneficial effects.

The excursion to the Mascot Mines will come off next week. Members of the party will leave this city and Boston on Thursday morning next. Meeting at Portland, they will arrive at their destination the same afternoon, spend Friday at the mine and return home Saturday. The managers are making arrangements for one fare over the railroads for the round trip. This will be an excellent opportunity to inspect this fine property, and the excursion will doubtless prove a pleasant and profitable one to all who can make it convenient to participate.

Sales of Maine mining shares at the Boston Mining and Stock Exchange for the week ending on Wednesday last aggregated 35,990 shares, as follows: 16,750 Milton at prices ranging from 8c to 5c, closing at the latter figure; 12,100 Deer Isle at 15c to 18c, closing at 15c; 4,200 Twin Lead at 4c to 7c, closing at 4c; 1,100 Copperopolis at 5c; 100 Mammoth at 7c; 800 Douglass at 50c; 540 Blue Hill, advancing from 20c to 28c and later to 32c; 300 Sullivan at \$1 and \$1 1-4. The only sales of Maine shares on the old Board were 100 Sullivan at \$1 1-2.

The New York Stock Report says that C. X. Hobbs, now on his way to Newfoundland in the interest of certain railroad enterprises with which he is connected, has just visited several of the mines of Nova Scotia. Concerning the Hall-Anderson and Oxford companies he reports: "When the new mills and steam hoisting works at the Hall-Anderson and Oxford mines, now in course of construction, have been completed, I believe that with the improved appliances and under the present systematic and skilful management the output of these properties will produce a revolution in Nova Scotia gold mining."

The Lewiston Journal has the following information concerning the Black Range mines owned and operated by Lewiston parties: The local owners of New Mexico mines are apparently in a comfortable mental state and are awaiting the return home of Mr. A. Phillips, of this city; their agent, who has had charge of their operations. He has written that he is closing up things preparatory to leaving, and he expects to arrive in this city the last of this month. The reports of Mr. J. Alden Smith, State Geologist of Colorado, who was in this city this winter, and was engaged to inspect the mines, are in the main favorable. He reports that

the ore of the Good Fortune (silver) is of a low grade, but the copper in the several mines owned here is very promising and it lies in true fissure veins. The shaft is now down 70 feet. Mining companies from Belfast, Me., and Lynn, Mass., have commenced operations in the same region. Sixty claims have now been staked out there. Our Lewiston miners are confident that smelting works will be erected in the district in the summer, and they may then reduce the large pile of ore they have taken out, to bullion, and tell of what stuff it's made.

There are two "gem" mining companies in this country which will commence their operations for 1882 in a few days under the most favorable conditions. The Emerald and Hiddenite Company, of North Carolina, will resume work in about a fortnight and pursue the search for gems most vigorously, under the direction of Professor Hidden. For three of the crystals found last October the company have received offers of from \$1,000 to \$1,400. The Mount Mica Company will probably operate two or three of their mines in Paris (Maine) and vicinity the coming summer, for tourmalines and rare minerals, commencing early in May or as soon as the weather will permit. The operations of these two companies will be watched with intense interest and great eagerness by mineralogists and gem amateurs all over the world. They are rival, but friendly, companies, and each will in its way attempt to outdo the other. The Mount Mica Company will endeavor to thoroughly explore the ledge at Paris, and bring to light its hidden treasures. In September next the company propose to exhibit the products of their mines, at Paris, as soon as the American Association for the Advancement of Science (which meets this year at Montreal) adjourns so that its members may attend. Many of the most noted scientists and mineralogists in the country have signified their intention of being present, and the occasion will be one of great interest.

Personals.

J. M. JOHNSON, Superintendent of the Mascot Mines, was in the city on Saturday last.

PROFESSOR W. FRANK STEWART, we are gratified to learn, has nearly recovered from the effects of his recent severe illness.

"SAM" BRANNAN, formerly of Saco, in this State, who has recently come into prominence as the promoter of a scheme for colonizing a tract of land in Sonora granted him by the Mexican government, was married to a Castilian lady at Guaymas, on the 25th inst.

FRANK W. CAMPBELL, night engineer at the Hercules Mine, was drowned last week. He left Castine for the mine in a small boat and shortly after the boat was found bottom up. Search has been made but the body had not been found at last reports. Deceased was 27 years of age and formerly resided in Augusta.

MESSRS. VARDEN & VARNEY have recently made some assays from the Pecos and Taos claims, and pronounced the character of the ore as being very fine. These gentlemen are the most skillful assayers in New Mexico, and as a consequence their offices are frequented by miners, prospectors

and investors in search of reliable data as regards mineral and other things appertaining to assaying. Their judgment is good and their experience large. As assayers they stand on the top round, and the position is merited.—[Santa Fe Democrat.]

WAKEFIELD G. FRYE, Esq., of Belfast, recently appointed U. S. Consul General at Halifax, was in the city on Wednesday last and favored us with an agreeable call. He was en route to Halifax, where he assumes the duties of his position on April 1st. Mr. Frye has been a valued subscriber to the MINING JOURNAL from the start, and is a firm believer in the ultimate success of the eastern mining industry. His appointment to this new field is a most worthy one, and our Provincial friends will find him a most able, courteous and whole-souled gentleman.

"SHALL WE HAVE A GEOLOGICAL SURVEY?"

[Portland Advertiser.]

THE MAINE MINING JOURNAL hopes that our Senators and Representatives will support the bill now pending in Congress for the extension of the United States Geological Survey into the States. Such a survey, if made, should follow a geographical survey under the direction of the Coast Survey office, which has already established the base lines for a triangulation of the States.

[Rockland Free Press.]

Efforts are being exerted to influence Congress to provide for the extension of the United States Geological Survey into the States. Since recent developments have established the fact of the existence of minerals all over this State, the desirability of a thorough and reliable survey by competent and impartial authority is more urgent than ever before. Preceding the settlement, or at least at an early stage of the development of the States and Territories of the great West, the Government caused surveys to be made and reports published, showing the nature and natural resources of the country, enabling the emigrant to judge of the inducements to settle there. Maine is among the States organized and settled before this complete system of survey was adopted, and consequently has been deprived of its benefits. Now, however, there is special reason why the Government should consider our claims favorably and extend to us the benefits afforded to the Western Territories.

[Norway New Religion.]

A bill is pending in Congress for the extension of the United States Geological Survey into the States. Hitherto the Federal Government has confined its work to the Territories and to coast surveys. Numbers of the States have had geological surveys on their own account but the appropriations have generally been lacking for thoroughness and accuracy in details. The State of Maine has been almost entirely neglected. We have not the means of making such survey as should be made. The Government would have advantage in beginning with the base lines of triangulation established by the Coast Survey. We would call the special attention of our Senators and Representatives to this bill and ask them to use every reasonable effort to secure its passage. Our State is rich in mineral resources of which the development has just begun. Such survey would quicken our mining industries and doubtless lead to many new discoveries. What is true of Maine is also true of other States.

[Portland Transcript.]

The interests of Maine are largely involved in the measure now before Congress, providing for the extension of the work of the U. S. Geological Survey into the States. Such a survey would authenticate and make public the story of the great variety and inexhaustible amount of the mineral wealth of Maine, which most of our citizens even, are but

just beginning to realize. Our slate, and lime, and granite, have gone with our lumber into the construction of so many edifices all over the land, that their merits are pretty well known. There has of late been a feverish expectation of wealth from the mining of the royal metals within our borders, and it would serve a good purpose to have such a survey as would either allay all doubts of profitable enterprise in this direction, or else give a quietus to useless hopes. If gold and silver and copper are to be found in paying quantities within our limits, it would be well to have the fact established by a competent surveying commission, such as is provided for in the bill now pending in Congress, the adoption of which our Senators and Representatives, it is to be hoped, will do their best to secure.

THE EASTERN MINING INDUSTRY.

[LETTER FROM PROFESSOR STEWART.]

BOSTON, March 28, 1882.

To the Editors of the Maine Mining Journal:

That was a well timed and most satisfactory article upon the mining interests of Maine, in the last issue of your JOURNAL, from the pen of Professor F. L. Bartlett. I am glad to know that you have such men as the Professor to voice an unanswerable defence of the much abused and cruelly misrepresented mineral resources of New England.

It would be useless supererogation for me to add anything to what Professor Bartlett has stated in reference to the prospective value of the mines of Maine; but I thought I might here venture to remind you of certain predictions which I made in relation to the geological structure of Maine mineral deposits, three years ago. I then stated that the truest fissure veins and most permanent ore-channels on the globe invariably exist in the "metamorphic, semi-crystalline strata, such as slates, schists, propylites, elvanites, sandstones and gneiss." As the rocks just named form the prevalent strata of the metal-yielding sections of Maine, I confidently predicted that actual exploitation would prove the ore-deposits in that State to be practically inexhaustible in vertical depth. I refer to this prediction now for the reason that at the time it was made, there was much scepticism expressed in regard to it. Indeed, the owners of many encouraging prospects acted as though they were afraid to explore their lodes to any considerable depth lest the ore-deposits should suddenly "peter out." It is gratifying to know that in every instance in which the Maine mines have been pierced by shafts and inclines, the ore-channels have not only remained intact, but have constantly improved in volume and in fertility, at every fathom below the surface.

I desire once more to emphasize the assertion that, geologically and lithologically considered, there is no mineralized section on this planet more favorable for deeply penetrating veins and lodes of the precious and useful metals, than the metamorphic Huronian strata of Eastern New England. I am perfectly familiar with many of the metal-bearing districts of Maine and New Hampshire, and I can safely affirm that if many of the ore-deposits which have been developed in those States could be bodily transferred to Colorado or New Mexico, they would suddenly create a profound sensation among the stock dealers of New York and Boston.

W. F. STEWART.

[FROM THE ENGINEERING AND MINING JOURNAL.]

PORTLAND, Me. March 20, 1882.

To the Editor of the Engineering and Mining Journal:

I wish to correct an impression, which seems to have gained a foothold principally through brief items in the New York papers, to the effect that many of our most promising mines have closed up and shut down for good; instead of such being the case, it is just the contrary. All of the promising mines are worked without cessation, and will probably continue to be until either put upon a paying basis or their worthlessness truly exposed, which in most

cases will require some years' time yet. It is true, however, that out of some eighty or ninety incorporated mines, only about twenty are now worked; but these are producing mines.

The fact is that, with few exceptions, the developments thus far are due to help and money from outside the State advanced by parties who have some knowledge of the business, and who care little for the opposition of the natives. Notwithstanding the many difficulties, the thing has progressed so well that we now boast some of the finest mining plants in this country, solid equipments put up for permanent use and well managed by competent men.

BLUE HILL.—It was announced last week that the Douglass had shut down, and it was feared "indefinitely;" this is not true, and it resulted from the discharge of a portion of the shaft-men, as it was found that they were taking out more ore than the smelting furnaces could handle. Mr. Thompson, the new manager, not being able personally to take charge of the mine until April 1st, wished to reduce expenses as much as possible until that time. Nine hundred tons of ore were mined last month, while the furnaces only run about 300 tons. A very large furnace is now in process of construction; and until that is finished, a small force only will be employed underground. The mine is well opened, and large quantities of good ore are in sight—enough to keep the furnaces running for years to come. Nothing but gross mismanagement can fail to make the Douglass a first-class dividend mine. The copper from this mine is pronounced by those who are using it to be exceptionally pure. Good progress is made with the other Blue Hill mines, and they are all producing more or less good ore.

BROOKSVILLE.—Eight miles distant from Blue Hill, is another rich copper section. The Rosier Copper Mining Company is a regular shipper of copper and zinc ores; it employs about 100 men, and has shipped about 1500 tons of ore during the past five months, mostly from development-work. The Maubhattau copper mine, although but fairly started, is shipping ore of high grade. No difficulty is found in shipping ore that will yield 15 per cent. copper. The Tapley has ready for shipment about 600 tons of first-class ore. The Hercules is producing considerable ore, although nothing but sinking is going on. On the whole, we ought to be well satisfied with the showing made by our copper mines. The Deer Isle mine continues regular shipments of zinc ores, having shipped up to the present time about 1200 tons.

SULLIVAN.—Several mines are worked at this place. The old Sullivan is now about 400 feet deep, and in splendid ore; enough is now in sight, and on the dump, so that the company will start its mill this spring. The last assays show 50 ozs. silver and 16 dwts. gold to the ton; vein, five to nine feet wide.

Zinc ore is now in good demand, and there is an abundance of it in our State; there is a strong probability of several such mines being opened this spring.

F. L. BARTLETT, State Chemist.

[BOSTON DAILY ADVERTISER.]

The Eastern Mining Industry is on a sounder basis to-day than at any former period in its history. It is more respectable in character, having enlisted the capital, sympathy and support of a large number of most excellent people. It is more intelligently conducted, having profited by the experience of the past, and attracted to its camps many able miners from abroad. It commands greater respect and confidence, for it now has something to show for the time consumed, labor employed and money expended. Its lodes have been exploited to hundreds of feet in depth, determining beyond question their permanency; and the value of its ores has been demonstrated by mill and furnace runs and bullion receipts. It has reached a point when critical investigation may be courted, confident that the results of such investigation will be satisfactory. It has broken down the wall of prejudice, and disarmed its enemies. It has achieved success, and is on the high road to popularity. Henceforth progress will be easier and speed more rapid. Few people realize the extent of the work accomplish-

ed during the past three years, and a still less number comprehend the Eastern mining situation as it stands to-day. Two extensive reduction works, one in Portland and one in East Boston, are running steadily on ores from the mines of Maine and New Hampshire, and thousands of tons are being shipped to smelters in New Jersey and elsewhere. There is now lying on the dumps of the mines in those two States, awaiting shipment or the completion of local reduction works, fully one hundred thousand tons of ore, possessing a value above the cost of production, transportation and working. And a far greater amount of still richer ore may be seen and measured in the shafts and levels of these mines, ready, on the completion of proper reduction works, to be converted into bullion, pigs, bars, bricks and ingots, having a commercial value in every financial centre in the world. And these results have been attained in far less time than our fathers required to clear their lands of rocks and timber; in less time than has been consumed in a single sea voyage; in less time than it takes a boy to gain his degrees or learn a trade; in less time than a corner-grocery store could be put on a paying basis.

Concentration, Smelting and Milling,

APPLIED TO ORES OF THE EASTERN STATES AND PROVINCES.

BY F. L. DARTLETT, STATE CHEMIST, PORTLAND, ME.

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INTRODUCTORY.

From the very inception of mining, dating back many hundred years, it has ever been a problem with the miner how to successfully and profitably separate his ores and metals from the worthless gangue rock in which they are invariably found. Notwithstanding the thousands upon thousands of inventions which have been made public for the rapid and cheap reduction of ores, scarcely any change of a radical nature has been made. I am perfectly safe in making the assertion that in no other branch of industry of equal magnitude has so little real advancement been made.

During the past four years I have studied this matter most carefully in every phase from the time of the earliest operations down to the present time and it is really astonishing to note how little improvement has been made over the earlier methods of ore treatment. In iron and steel great advancement has certainly been made, but in the matter of copper, lead, tin, silver and gold we cannot claim much advance. It is true that much improvement has been made in certain special directions, as in the separation of silver from lead, and copper from silver and gold, but the original smelting operations are the same in methods, although of course we have made great improvement in the mechanical part. The Patent Office is thronged with the inventions of sanguine individuals for improvements in concentrating and reducing ores. There has been more money and time wasted on this subject than on anything else ever brought before the public. "Perpetual motion" and "patent churns" are but shadows compared with our subject. Some of the best talent, as well as a good deal of the poorest, that the world has ever seen has been brought to bear, but the results are meagre—exceedingly meagre. The reasons why so many failures are made do not seem to be apparent, and it is singularly true that one may with almost absolute safety condemn every "new process" that comes out, without even taking the trouble to study it, so sure is it to be a dismal failure. Copper, lead and tin, are both smelted in the same manner as that of fifty years ago, and the "pan" process for silver and gold is only a mechanical improvement over the old Mexican "patio" process. The working of gold quartz is a more recent science, but what improvement has been made over the original California stamp battery?

If no great advancement has been made in the past what may we expect in the future? Necessity will solve the problem of cheaper reduction if nothing else will, for it does not require a mathematician of high order to figure out the time when we shall have to look to a lower grade of ores than we now do for our supply of metals. We are fairly gutting the earth now, scooping out the richest part, leaving the poorer, and flying from one rich place to another like a boy in a blueberry patch, while all this time the demand for copper, silver, gold, lead, zinc and tin is increasing to an alarming extent. The inevitable result will be that some means *must* be found for working lower grade ores. Electricity and chemical forces will undoubtedly be the methods by which the problem will be finally solved. To smelt the copper ores of Maine, New Hampshire and the Provinces into ingot copper requires at least six long, tedious processes. Six times the ore must be heated to a nearly white heat before it comes out pure enough for commercial use. What an enormous waste of heat and energy! I cannot believe

it possible that we shall use the same method fifty years hence. The question which bothers us most now and the one which I shall endeavor to answer in a series of articles in the MINING JOURNAL is: What is the best present method of treating our ores?

The text books on mineralogy give very little assistance in answering this question; they contain monotonous accounts of hundreds of processes which have been tried and failed; they describe certain processes now in use with exquisite exactness, but forget to give us any figures, or data, to work with. The practical miner needs figures of cost of construction and of the cost of working, more than anything else, to guide him in his operations. The United States Mining Commissioners have given us good detailed descriptions with reliable data of operations as carried on west of the Rocky Mountains, but there is such a wide difference between the prices of supplies and labor there and here that they become practically worthless to us in the east. Foreign figures are no better—in fact, not so good; consequently our mining men are adrift so far as practical, substantial work is concerned. The country is full of costly monuments marking the birth place and death of "new processes" and old processes wrongly applied, in the form of splendidly built mills and smelting works—beautiful structures, beautiful failures.

If from my travels, my studies and my practical experience I have learned anything which will benefit others, even if only to prevent them from following a two or three times proved failure, I have accomplished much, and to this end I propose to deal only in facts, and treat of such methods only as are known to be of tested value.

CONCENTRATION.

The object of concentrating an ore or *dressing* it is to get rid of some of the worthless material, as gangue rock of quartz, limestone or slate, or some other mineral or ore contained in it which is objectionable in the subsequent operation of smelting or reduction. The term *concentration* has reference more particularly to machine work—that is, crushing and dressing by the aid of machinery which is, generally speaking, automatic in its action; ore *dressing* applies to hand work at the mine—breaking and sorting in lumps—although this latter term is, I believe, used in a general way in Europe to designate both kinds of work. To my mind concentration has not received that amount of attention in the United States that its value and importance deserve. Concentration of ores in the western States and Territories has been until recently almost wholly unknown. The reason for this is obvious. Many, in fact the bulk, of their ores, are either smelting or milling. Take the two great centers, Virginia City of Nevada and Leadville of Colorado; at the former place the ores are essentially milling; at the latter, smelting. At other points in the west, for the most part, anything too low grade to smelt or mill is thrown on the waste dump with the idea, perhaps, that at some future time when all the high grade ore is exhausted they will turn attention to the concentration of the dump pile. Not so here in the east. Our ores, with few exceptions, are neither free milling nor smelting. They more resemble the ores of England and Germany where dressing and concentration ores are the rule and smelting and milling ores the exception; indeed were it not for their excellent methods of concentration the yield from their mines would be of little consequence.

There are plenty of mineral lodes of galena and copper in the Canadas, New Hampshire, Maine and some of the southern States good enough and large enough if properly worked to pay handsomely if our mining men would content themselves to work them in the somewhat slow and plodding manner of our continental friends—by concentration. I can name a hundred mines in New Hampshire and Maine alone which I believe would pay for working, year in and out, if some simple form of concentration were applied to the working of the ores and the owners were satisfied to work with 10 per cent. dividends on their original investment. The average New England Yankee is always in haste; rush and drive is the word; if one thing don't pay, drop it and go for something else. Here is a description which more than one mining man will recognize: Form a company; buy a piece of property supposed to contain a mine; put \$2,000 into the treasury for a working capital(?); tell all your friends that it will pay a dividend within six months; advertise in the papers to the same effect; put eight or ten men and an old horse at mining; down 100 feet first year; assay a few selected samples—run high; tell people you have got 500 tons on dump—splendid ore; directors meet—decide to send two tons best ore to market; all hands await result—high anticipations; results come—big bill for freight, sampling, etc.; ore not worth working—runs perhaps \$20; all hands disappointed, money all spent; decide to give it up, or may possibly come the second stage, when a few plucky individuals raise some more money, buy a pump, hoister and engine and start out bravely, to do or die; start level, strike pretty good ore; un-

decided what to do—think mine ought to pay its way now; have directors' meeting—decide to employ an "expert" to tell them what to do; expert makes big report (for \$100) and advises putting up smelting works—big profits saved, etc.; by great effort money is raised, works put up—stockholders happy—dividend shortly; buy safe to keep bullion in; start works; ore don't smelt; build works over; try again—result ditto; send for another expert; he comes, looks wise, (\$200 this time) says all they need is concentration works—advises Mr. Bigschem's patent process; another effort—money raised by mortgage; works put up; don't work, machinery needs a little "fixing"; six months spent "fixing machinery"; don't work then; blame the mine; get disgusted; \$50,000 spent; no big "dividends"; fifty stockholders mad; nothing more to do with mines; much soreness, good deal swearing, etc.; \$5000 spent in mining, \$45,000 on machinery, and a good mine gone to the dogs simply because fifty men wanted to get rich in six months out of a small hole in the ground—its too much strain on so small a hole; yet this is the American way of doing things here in the east.

Now what is the trouble with this method of mining? Briefly answered, this: They were in too much haste; they should have developed their mine at least two years before thinking of works; they needed no smelting works, simply because the ore was not smelting ore; they should have put up, instead, some simple, inexpensive concentration works, of small capacity at first and on the plan of works which were known to be successful; the first year's returns would have been small, probably, but the second year would have been greater, and so would each succeeding year, and by the time the \$50,000 had been spent the mine ought to be self-sustaining or paying 10 per cent. on the capital.

(CONTINUED IN OUR NEXT.)

Maine Mines and Mining.

PORTLAND, Me., March, 28, 1882.

Messrs. Editors:—Allow me to call the attention of your readers, the mining men and public generally, to the fact that if they will go at work in earnest and even partially develop their best properties, or those which give the best prospect of success, or make arrangements with outside capitalists to do so, even if they give them two-thirds interests in their mines for the working of them, capital will be forthcoming into Maine to work said properties. There has been too much cheap talk and high priced value put upon the merest prospects; too much wild speculation in stocks of undeveloped properties and not enough bona fide substantial underground work done. That Maine possesses many valuable mines and prospects on which considerable work has been done showing first-class results, must be admitted by even the captious doubters. We are glad that the stock speculation fever has subsided. Now let us go at work and rely on intrinsic merit.

Mining proper is just as legitimate a business as any other and is fast being so considered among the very best and most sagacious business men. That it has been and is being grossly contaminated by unscrupulous men in it is true, but it does not affect the main fact any more than manipulations and speculations in wheat, cotton, railroads and so on, affect the fact of the substantial character of those branches of business. As Wesley once said about certain charming secular songs, "it is too bad to let the devil have so many good tunes." The vast sums of money lost in those ventures exceed those in mining.

As my business brings me largely into relations with ore buyers and consumers, I can state authoritatively that there is great demand for all the principal ores from Maine. I cannot seem to get the ores now they are desired. This very moment I am ready to purchase or contract for future delivery of 100,000 tons of zinc ores; also large amounts of copper ores, either low grade flux, high grade sulphurets, or pyrites; the same of lead and galena ores. I am ready to make advances on account of shipments either on railroad receipts or bills of lading. I am also ready to bond valuable zinc and also pyrites properties for a few months for responsible parties who will develop them to a certain depth and test their value with their own money, with the privilege of purchasing them at an agreed figure if satisfactory. When the inferior minerals are in such demand, certainly mining ought to pay.

There are in Maine and New Hampshire a number of properties carrying large veins or lodes of the above named minerals and the surface showings even are remarkably promising. Now that ore buyers and consumers are earnestly asking for Maine ores and ready and willing to purchase them in large quantities at remunerative prices, and now that the fact has been established that such ores do really exist in this State in paying quantities, if only properly and economically mined and worked, it is certainly a strange anomaly that such purchases cannot be made. If mining property owners and ore producers will place themselves in communication with me, I can be of

valuable service to them. The inferior ores can be made to pay all expenses and leave the valuable minerals almost an entire profit. Our great trouble has been that too much money has been spent on top of the ground in expensive and experimental works, also in stock manipulations. Thus upon the relapse, companies have become crippled and the too confident investors damaged and discouraged. Instead of discouragement Maine mining men should now take courage and go ahead, profiting by experience.

We are glad to learn that Prof. F. L. Bartlett of this city proposes to publish in your excellent paper a series of articles on the concentration of ores. That's right. The solving of the concentration question as regards Maine ores is of vastly more importance than that of smelting. Let custom smelters here and in Boston, New York and New Jersey take care of that branch for the present, until more mines become self-sustaining. It is a well-known fact that more money is made in working large veins of low grade ores, first concentrating them, which can be done at a very low cost, rather than working high grade ores from narrow pay streaks of the average sized veins, erecting therefor costly and experimental smelting works, often bankrupting a company's treasury.

The public will be agreeably astonished, we predict, to learn, as they will ere Prof. Bartlett gets through with his valuable articles, that many mines and lodes now traduced and "under the weather" can be easily made with proper concentration of their ores to take rank among the best dividend paying properties in the east.

B. BARNES, JR.

LODES, LEADS AND VEINS.

GRAND TRUNK.—The Gorham Mountaineer says: A heavy shipment of ore was made on Monday of last week from the Milan mines, a heavy train being loaded on Sunday, the only time when this can be done, on account of the frequent passing of trains on week days, having to use the main line. The side track is sadly needed, and will undoubtedly be put in soon.

YOUNG HECIA.—The vein in the bottom of the shaft continues to improve with increasing depth and the ore is becoming more massive and increasing in richness. A considerable portion is very high grade ore. The present prospect is a very flattering one.

GOULDSBORO.—Work at the Gouldsboro Mine is progressing favorably under the superintendence of W. A. Leonard, of Cherryfield, with A. Sherman, of Sullivan, foreman. Thirteen men are employed and good ore is being raised.

Sullivan.

SULLIVAN.—Work at the Sullivan Mine is progressing vigorously and systematically. The main shaft had reached a depth of 410 feet on March 23d. The total length of all the underground work is about 2,000 feet. Very beautiful recent specimens, highly charged with native silver, are shown at the Superintendent's office, and the present showing is very satisfactory to the company.

FANEUIL HALL AND SULLIVAN.—The crosscut from the shaft on the 160-level is now in 160 feet and appearances indicate that the face of the drift is very near the vein. A new air compressor has recently been put in and progress is now being made at the rate of about 10 feet per week. The stock of the company is all owned by seven men, who have furnished all the funds required for prosecuting the work, and the business is conducted strictly as a private enterprise.

MILTON.—As usual a full force of men have been steadily employed during the week, and have made very good headway in all parts of the mine. The vein in the bottom of winze No. 1, is looking as well as at any time since operations were first commenced on it. The vein in the bottom of No. 2 winze is coming in more solid, and gives signs of improvement in the near future. The rock continues hard in the south level of Shaft No. 2; ten feet has been driven during the week.—[Sullivan Bulletin, March 25.]

Egypt.

COPPEROPOLIS.—The shaft on the Copperopolis is down about 110 feet. The formation runs nearly east and west and the ore channels dip toward the north. The best surface showings lie a short distance southerly from the shaft, and it is expected to cut through the ore bodies in sinking. More or less ore has already been encountered and a considerable quantity raised to the surface. It is of extremely high grade, averaging nearly 30 per cent. copper. The mine will soon be equipped with engine, boilers, steam drills, and a pump of large capacity. The developments will be pushed vigorously and the nature of the deposits indicated by the present flattering showing fully determined.

HARVEY ELLIOT.—This mine is owned and worked by New

York capitalists who intend to fully develop the property. They have a fine shafthouse and the most approved steam machinery of all kinds, and will put in a Cornish pump of large capacity about April 1st. The main shaft is down 90 feet. The Mullan shaft, on the same property, is down 48 feet and has made a fine showing of ore; a shafthouse will be erected and steam machinery put in early this spring, and sinking will be resumed. Capt. M. S. Smith is superintendent, and Andrew Peters foreman.

Some prospecting has been done on the shore of the bay, at York's Point, with good results. The property is owned by Marcus Mullan, J. A. York and others. Further explorations will soon be made. Peaked Hill, in the same district, is also a promising mining property.

FRANKLIN EXTENSION.—The shaft is down 107 feet, from the bottom of which crosscuts have been run 37 feet north and 35 feet south. In the south crosscut a handsome vein 4 1-2 feet wide was encountered, ore from which has assayed nearly \$290 per ton. The gangue of the vein is thoroughly mineralized with galena and a dark ore strongly resembling gray copper.

The old Franklin, now known as the Benjamin Franklin Silver Mine, will soon be in funds to resume work, and active operations will soon be in progress.

The well known Swan Mine is also in this vicinity, and, as far as developments have shown, well sustains the character of the district.

British Provinces.

Pig iron making in the Dominion is carried on only at three points—Three Rivers, in Quebec, Woodstock, New Brunswick, and Londonderry, Nova Scotia; the two former producing charcoal, and the latter a coke-made iron.

A Halifax despatch states that work is progressing day and night upon the new mill at the Hall-Anderson Gold Mine, Nova Scotia. The old mill has resumed work and it is thought that sufficient bullion will be shipped for the April dividend. A rich body of ore was struck in the Serpent lode last week.

The Nova Scotia Oil and Land Company was organized at Portland, under the Laws of Maine, last week. The following officers were elected: President, S. D. Leavitt, Eastport; Treasurer and Secretary, M. Upton, Boston; Directors, Samuel D. Leavitt, M. Upton, Winthrop M. B. Hammond, Hayes Lougee and J. P. Lynch.

A despatch from Halifax states that the Oxford Gold Mining Company's engines, boilers, hoisting works, mill, lumber, and all other materials for the plant are now on the ground, and a large construction force is working. In last week's sinking on the fifteen-inch lode it widened to twenty-four inches quartz and is still growing richer.

The miners at Lingan coal mines, Cape Breton, are on a strike on account of miners being hired who are outside of the Miners' Union. The strikers were hiring in other mines, but delegates from the different Unions on the island visited Lingan and forbid the Union men to leave, ordering them to remain and fight it out with the manager, Mr. Lynk, and promising that the different Unions would furnish money, etc., to support the strikers and their families. All the mines on the island, with one exception (Lingan), are rushing work banking coal, with the full expectation of a grand season's work.

In the report of the Canadian Department of the Interior, for 1881, the following reference is made to the geological survey in New Brunswick: In New Brunswick, explorations and surveys have been carried on during the year over a large extent of country in the eastern and northern portions of the Province, and have also extended to the northern shores of the peninsula of Gaspé, where surveys were made of the coast from Metapedia to Little Pabos and of River Cascapedia, Nouvelle, Bonaventure, Sacaménac and Little Cascapedia, to a distance of about twenty miles from the sea. In the counties of Northumberland, Kent, Westmoreland and Albert, geological examinations and topographical surveys were made to locate the outcrops of coal seams in these counties and to ascertain their probable economic value, and at the same time to connect the surveys in New Brunswick with those already made in Cumberland County, Nova Scotia. In York County, on the northeast side of the River St. John and extending into Carleton County, an area of about 7,000 square miles was surveyed and examined by Mr. Wallace Broad. This work will afford necessary data for the completion of the fourth quarter sheet of the geological and topographical survey of southern New Brunswick.

The Chapin House, Monson, recently purchased by W. Scott Knight, was totally destroyed by fire on Friday of last week.

Croppings.

[Compiled, Condensed and Confiscated from our Exchanges.]

The anthracite coal interests have agreed to a suspension of mining on the following days in April: The 6th, 7th, 8th, 27th, 28th and 29th.

The Torrence mill at Socorro, New Mexico, is operating successfully, turning out about \$8,000 per week. The La Joya smelter will soon be ready to start up.

The Hastings Concentrator Company, of Boston, are about to erect a concentrating mill, under the E. B. Hastings patent, on their magnetic iron ore property at Andover, N. J.

The black sand from the beach at Block Island, R. I., is being extensively shipped to Pittsburg and the great iron centers of Pennsylvania, where it is used in the manufacture of fine steel.

Engineer Peele, of the Tombstone Mill and Mining Company, was assassinated in his office at Charleston, A. T., on Saturday last, by two masked men, who entered his office, shot him down and fled. Motive unknown.

Bituminous and black coal is found in 18 States of the Union, and is produced in 2,714 mines and 5,000 diggings operated by farmers. The total amount of capital invested is \$89,999,100; wages paid, \$30,707,659 to 96,475 miners; value of coal mined, \$19,733,602.

The Dunn's Mountain Gold Mine, North Carolina, shipped 1360 pennyweights of gold on the 19th inst., the result of a week's mill run. Large reserves of ore are in sight and the cost of mining and milling does not exceed \$2.25 per ton. It is a private enterprise.

Iron slag is ceasing rapidly to be a waste product. At an English iron works it is employed as a non-conductor of heat. When it is ground it is molded into bricks of great toughness, which are also impervious to frost and 30 per cent. lighter than common clay bricks. Cement, concrete and artificial stone are likewise made from the slag.

CLIFTON COPPER MINES.—The Arizona Star says, under date of March 9, that I. J. Stevens & Sons, owners of the Copper King Mine, have run a tunnel in 20 feet on their mine, and struck a vein of copper glance and pyrites. They are now in 9 feet on the vein and are unable yet to determine the extent of the discovery. It will be remembered that this mine is now owned by Bangor parties, in whose interest Dr. Melvin Preble of this city, is now visiting the property. The Longfellow Copper Mining Company have let a contract for work to the amount of \$50,000 on the extension of their railroad to the mines. Fifty or seventy-five miners can get work in this camp at from \$3 to \$4 per day.

Buildings are being erected near the Nissitisset River, in North Pepperell, Mass., for a crushing mill, with a steam engine and boiler, which are to be used for smelting the ore taken from the mines on the Bontwell farm and adjoining lands. These mines and the land on which the mill is located have been leased, the former for twenty and the latter for ten years, by Mr. D. A. Bates, of Fitchburg, Mass. Specimens which have been assayed are found to contain lead and silver principally, and in such quantities as to warrant satisfactory results from working. The main shaft has now several feet of water in it, but as soon as the mill is completed pumps will be erected and the shaft sunk several feet lower.

Prof. G. H. Cook, State Geologist of New Jersey, in his report for 1881 makes the following statement concerning the zinc production of that State: The New Jersey Zinc and Iron Company and C. W. Trotter are working the zinc mines on Mine Hill, at Franklin. At Ogdensburg, the Sterling Hill mines are worked by the Manganese Iron Company, the Passaic Zinc Company and the New Jersey Zinc and Iron Company. The increase of production for several years past is shown in the following statement of production: 1878, 14,467 tons; 1879, 21,937 tons; 1880, 28,311 tons; 1881, 49,178 tons. The production of iron from New Jersey ores is given as follows: 1878, 409,664 tons; 1879, 488,928 tons; 1880, 745,000 tons; 1881, 737,052 tons.

The syndicate of capitalists known as the Standard Coal and Iron Company, of which Hon. James G. Blaine, Senator Eugene Hale, Oliver Ames, and Governor Foster of Ohio are the leading promoters, have accomplished a very important and extensive transfer of mineral lands and furnaces in Hocking Valley. This transfer and sale includes the property and plant of the Akron Iron Company of Cincinnati, the price paid being \$825,000. The papers are to be passed April 12th. The Akron Iron Company's property consists of a furnace, about 1339 acres of iron and coal lands and the town site of Buchtel. Mr. John R.

Buchtel, of the Akron Company, retains 220 acres of valuable coal lands on Sandy creek, and the company about 400 acres. The object of the syndicate, of course, is to control the entire output of Hocking Valley.

It is reported that the Bristol, Conn., Copper Mine is going to be started again. This mine was discovered soon after the Revolutionary war by Luke Gridley, who dug a ditch into the side of the mountain, and after getting out some ore took it to a blacksmith in Whigville to get it smelted. It raised such a smoke that the neighbors ran to the shop thinking it was on fire. The mine was next started by G. W. Bartholemew. Soon after it came into the hands of a Mr. Miller, who sunk quite a lot of money in it. The money was said to be furnished him by Swartout, a New York custom house officer. The papers of that time say of him that he embezzled half a million, most of which was squandered in mining speculations. It was run a while by Lawson and Chauncey Ives, after which it was owned by Dr. Nott, president of Union College. He spent a large amount of money here, and made it for the first time a paying investment. He is said to have realized in the month of July \$25,000 over expenses. A joint stock company was then formed, with Professor Silliman of Yale College, also State Geologist, as president. A large reservoir was then built in a very hard winter. Fires were kept burning all night on the gravel banks, so that the workmen could shovel by day. Extensive buildings were built and a great deal more money spent than the circumstances would warrant, and in the fall of 1836 the company failed. J. M. Woolsey, of New Haven, had at one time in his possession over \$100,000 worth of the company's paper. He secured a mortgage upon the property and it came into his hands. He still owns it. There are 300 cords or more of timber used as supporting timbers in the mine. In its palmy days 300 or 400 men were employed in and about the mine.

EASTERN INDUSTRIES.

—Some of the machinery in the new woolen mill at Guilford has been started.

—David Clark, of Kennebunkport, has built and rebuilt seventy-six vessels since 1857.

—The Lewiston Machine Company have recently imported a quantity of pig iron from Glasgow.

—Signor Ernesto Ponce is about to start a cigar factory in Portland which will give employment to thirty men.

—The spool manufactory of J. G. Tebbets, at Locke's Mills, Oxford county, is turning out 15,600 gross of spools per month.

—The new boilers of the Kennebec Framing company, Fairfield, are being set with the Jarvis patent furnace, by Mr. J. N. Pratt.

—The Saco Water Power Machine Company employs about 600 men, and is one of the most prosperous manufacturing concerns in the State.

—The Hallowell Cotton Manufacturing Company, Hallowell, are anticipating some improvements in their mill this coming season. They are running their mill full time.

—Shipments from the Auburn shoe factories for the week ending Wednesday, March 22, aggregated 2,165 cases, against 1,598 cases for the corresponding week of 1881.

—The tools, machinery and granite stock at Vinalhaven belonging to the U. S. Treasury Department have been purchased by the Bodwell Granite Company, they being the highest bidders, for \$4,020.

—The Hinckley & Egery Iron Company, of this city, have just put a new gang in the saw mill of N. Totman & Sons, Fairfield. The gang has all the modern improvements and is one of the best on the river.

—A large shoe manufacturing firm of Lynn, Mass., are desirous of starting a factory at Kittery, if the townspeople will erect a suitable building and exempt the business from taxation for a term of years.

—Mr. Hall, at the Belfast foundry, is now turning out some very fine ship work, among which are pumps and windlasses, containing many improvements of his own invention. Our ship builders and vessel owners have no occasion to go out of town for work of this kind.—[Journal.]

—A Washington despatch says that bids were opened in the office of the Supervising Architect, on Saturday, for granite for the basement walls of the Court House at Pittsburgh, Pa. Of the twelve bids, the lowest was by the Bodwell Granite Co., of Maine, and they were given the contract. The bid was \$11,760.

—The Bodwell Granite Company are cutting several statues in Vinalhaven granite and Jonesboro red granite. They are also cutting some splendid monuments in Dushane Hill granite. This is a beautiful fine granite, and is rapidly gaining ground among some of the large dealers in New York and other large cities.

—A very extensive addition is being made to the New Brunswick Granite Works, Carleton. A new building 175 feet long and 40 feet wide is being erected for the reception of saws and polishing lathes. A new boiler and engine are also being put in. The cost of the improvements will reach the sum of \$24,000.

—The Pepperell Manufacturing Company, Biddeford, will, this summer, substitute flat roofs for the pitch roofs at present on their mills, besides making many other improvements. Mr. Howe, the present agent, has made many improvements and increased the production in this and the Laconia Company since he assumed the management.

—The granite business in Franklin is now one of the prominent industries of the town. The leading operators are West & Wakefield, E. J. Swan, J. P. Gordon, Blaisdell Brothers, W. T. Havey and others, and J. W. Gordon. Quite a force are already at work and as the season advances employment will be furnished to a large number of men.

—The York Manufacturing Company, Saco, have the machinery in their new mill all in operation and are making an entire change in the arrangement of the machinery in their old mills. This has been a very complete job and when finished will decrease the cost of production. This entire change has been made without the stoppage of the mills.

—The lumber shipments from the town of Franklin for the present season are estimated as follows, the value on the wharves being given and the names of the shippers: W. H. Card, \$10,000; C. H. Macomber, \$6,000; J. P. Gordon, \$8,000; Blaisdell Brothers, \$8,000; J. U. McCarthy, \$5,000; H. B. Mason, \$6,000; E. J. Swan, \$10,000; other parties \$7,000. This includes hoop poles and everything of wood growth.

—Mr. W. P. Colchester's fertilizing factory at Grand Manan is fast nearing completion, and is expected to start up about May 1st. This factory will be beneficial in more ways than one, as it will not only enable the fishermen to dispose of every particle of the fish they catch, but will utilize the offal which has hitherto found a resting place along the beaches, to the intense discomfort and annoyance of summer visitors.

—P. C. Holmes & Co., Gardiner, manufacturers of accurately spaced and planed gears, have just completed a new office at their shops; have also put in a new engine and boiler, and a new planer to run by steam. They are at work on wheels for the following parties: Two turbine wheels for the Salmon Falls Manufacturing Company, two for the Lockwood Manufacturing Company's new mill at Waterville, besides many others.

—The Dunn Edge Tool Company, West Waterville, are preparing to erect a large addition to their axe shop. Many car loads of Norridgewock granite are being delivered for the foundation. The axe business of this, as well as the other axe manufacturing firms, is steadily increasing, and the Hubbard & Blake Mfg. Co. have put in an immense poll machine and are having all they can do to fill orders, aside from their own wants.

—The Lockwood Manufacturing Company's new mill at Waterville is nearly ready to start some of its carding machinery. This mill is a fine piece of work. The main mill is 400 feet in length by 100 in width, five stories high and built of brick. The power is furnished by four large wheels. This mill when in full operation will contain 44,000 spindles, and will be under the management of their present agent at Waterville, S. I. Abbott.

—The Hardy Machine Company, Biddeford, manufacturers of the Hardy improved traverse card grinder for grinding all kinds of textile cards, are putting in a lot of new tools and enlarging their floor room. They are filling orders for their card grinder as follows: From the Lockwood Manufacturing Company's new mill at Waterville, Me., the St. Croix Company's new mill at Calais, Me., the Charleston Manufacturing Company, at Charleston, S. C., besides many others.

—Messrs. A. C. Dennison & Co. are having 5,000 cords of poplar wood cut in Mexico and Carthage for their pulp mill at Canton. The wood is \$3.50 to \$4 at the mill. The Messrs. Dennison make 350,000 to 400,000 pounds of pulp per month. About eight carloads of paper pulp per month are shipped to various paper mills, and about the same amount is used at the company's paper mills at Mechanic Falls. This important industry shows what bonanzas there are in Maine that Maine is only just finding out.

—Next week the Portland Company will finish a new hard coal-burning engine, now in process of completion at their works. It will be forwarded at once to the New York City and Northern Railroad Company, for whom it was built. The next two locomotives to be turned out from the works will be consigned to the Northern Pacific Railroad. When completed they will be sent from here to Bath, and shipped thence to their destination, on a new vessel specially chartered for that purpose.—[Portland Sunday Times.

—The Corinna correspondent of the Dexter Gazette says that Mr. Greenwood, the enterprising owner of the woolen mill in that place, offers to put in a mill employing about one hundred hands, upon the site of the old carding mill, providing the town will furnish the lot, but the penurious owners refuse to sell for anything like a reasonable price. Other parties have offered to erect a cotton mill upon the same terms, but this is also vetoed. As a royalty is charged for moving into town, *à la* cut under hay-rack, many dollars could thus be realized.

—Fitz's Pond, in the town of Dedham, is noteworthy as being the first pond in Maine to be stocked with black bass. The fish were brought from Connecticut. J. P. Phillips, proprietor of the Lake House, has stocked numerous other ponds, from the increase, under the direction of the Fish Commissioners. The pond is three miles long, lying under the shadow of granite mountains, between which runs the telegraph road leading from Bangor to Ellsworth. T. N. Egery, Esq., of this city, has erected a fine mill at the outlet the past season, for sawing long lumber, shingles and staves.

—It is understood that Mr. Noah Mayo, one of Boston's largest packers of fish, who has extensive wharf facilities in East Boston, has taken a lease of Widgery's wharf in Portland, Maine, as an auxiliary to his fishing and packing business. He has a number of Eastern vessels engaged for the coming season, and proposes to go into mackerel more extensively than ever. He expects to do a large trade in Portland when the fleet works down in that direction. It is said that this move of Mr Mayo's has stirred up a little excitement among the fish packers in Portland, who imagine that it will interfere somewhat with their operations.

—Deer Isle is the second town in population in Hancock county. It is twelve miles long, and from five to seven wide. It is a port of entry under Castine. There are about one hundred and fifty vessels large and small owned here, and engaged in coasting and fishing. The male population are mostly sailors and fishermen; there are four canning factories, two at Green's Landing, one each at Burnt Cove and Oceanville. There is a silver mine at Dunham's Point, which is being worked with fair prospects at present. At Green's Landing there are two ice companies who have filled their houses after a hard struggle with the snow.

—On the manifest of the steamship Ontario, which arrived at this port from Liverpool on Thursday, were 134 cattle, comprising 13 calves, 13 sheep and 9 horses. These animals were imported, for breeding purposes, at a cost of \$58,000, and with the exception of the horses, were consigned to Messrs. Burleigh & Bodwell, of Hallowell, who are doing so much by importations of this character, to improve stock in Maine. The steamship entered at the Custom House at 2:30 o'clock P. M., and at 8 o'clock in the evening the animals were on board cars and bound for Hallowell, where they will remain in quarantine for 90 days, as required by the regulations of the treasury department.—[Portland Sunday Times.

—The Southard Manufacturing Company, of Richmond, on the Kennebec, is a company which was organized last season for the manufacture of grain bags, with T. J. Southard, president, and C. H. Southard, treasurer. The mill built by this company consists of a main mill, brick, four stories high, 100x50, with picker house 36x34; also a brick cotton house. The machinery consists of twenty-eight Foss & Pevey cards, manufactured at Central Falls, R. I., and sixty looms. W. S. Voter, formerly second hand at the Lewiston Mills has charge of the weaving, and W. N. Higgins, from the Androscoggin, charge of the carding and spinning. A. A. Barker, formerly superintendent of the Otis Company's Palmer Mill, is superintendent of the mill. The power is furnished by a 75 horsepower engine. The company intend to make none but the best grade of bags, for which they already find a lively market. The first shipment was made March 16. The machinery is nearly all in operation and the mill is a large addition to the industries of Richmond.

ELLSWORTH INDUSTRIES.—The new buildings of the Ellsworth Foundry and Machine Company are finely located on the point below the bridge, and the new enterprise is quite an acquisition to the business industries of the city. Orders for work of various kinds are rapidly flowing in, and it already

seems not unlikely that an enlargement of the works may be called for at an early day.—Below the Foundry are the large Steam Grist Mills of the Hall Brothers, which do a large business; also E. & S. D. Bonsey's Door, Sash and Blind Factory and Murch's Pump and Block Factory, both of which establishments receive their power from the Messrs. Hall.—It is estimated that the lumber product of the mills in Ellsworth the present season will approximate 20,000,000 feet of long lumber, 12,000,000 of shingles and 20,000,000 staves. The staves are mainly manufactured from juniper, spruce and fir.—The new Woolen Mill, located on Branch Pond Stream, is now ready for the machinery.—There are several valuable unoccupied water privileges on this stream (Branch Pond) which, if improved and utilized, would add largely to the growth and prosperity of the city.

SULLIVAN GRANITE.—A few quarries in the town of Sullivan have been worked more or less for a long time and the quality of the granite for different uses tested. It is noted for its fine quality, durability, and excellent rift. The latter quality makes it especially valuable for working into curb stones and street paving blocks as well as for other uses where fine dimensions in the rough granite are very desirable. About eight years ago Mr. John H. Stimson, an operator in granite of large experience, came from Boston and purchased about 1000 acres of granite and water-front land and commenced operations. His present facilities for the immediate filling of large contracts are first class. He will employ the present season from 125 to 150 men, and could employ a much larger number should circumstances warrant. He has now piled on his wharves about 10,000 tons of paving blocks and bridge stone, ready for shipment, and about as much more back in the quarries which could be run down his rail track to the wharves at short notice. The other active operators in the granite line at present are Crabtree & Havey, and Simpson & Abbott, who, combined, will employ from 50 to 100 men this season. Ambrose Simpson, who is among the pioneers in the business, will build a new wharf for his quarry this season and await contracts. There is a growing demand for granite blocks to pave the streets in all the western cities and what the quarries need is railroad facilities, in order that the material may be shipped to its destination without breaking bulk. Chicago and other western cities will be within easy reach as large customers for Eastern Maine granite on the completion of the Shore Line Railroad. Those most competent to judge consider the demand in its infancy, and the knowing ones are making preparations accordingly. Sullivan alone could furnish 1000 tons per day if the demand and railroad facilities were equal to it.

Railway and Steamship Notes.

....Steamer City of Richmond has been towed from Bath to Boston and will receive her boilers at the latter place.

....There is talk of extending the Old Orchard Junction Railroad up the Saco River through Salmon Falls, Bar Mills, Moderation, Bonny Eagle and Nason's Mills to Limerick.

....The Bridgton & Saco Railroad Company are bonding the land to secure the right of way, and are making all necessary preparations to begin work on the road as soon as the ground is in suitable condition.

....All the passenger cars of the Eastern Railroad have been newly painted and varnished, giving the rolling stock of the road a fine appearance. Superintendent Sanborn says the company are preparing for and expecting the largest summer business this year they have ever had.

....Mr. Lucius Tuttle, general passenger agent of the Eastern Railroad, have been chosen vice-president of the National Association of General Passenger and Ticket Agent. Mr. Tuttle is a gentleman of marked ability, with a special adaptation to his particular line of business.

....A party of fifteen men engaged in locating the proposed Megantic Railroad arrived in Greenville on Thursday and passed the night at the Eveleth House. Four of them returned home on Friday by rail through this city, and the remainder returned to Canada in teams over the same route.

....The Augusta Journal says: "The Maine Central are running their shops in the towns along the line to their utmost capacity, and are having the rolling stock of the corporation put in first-class order. New cars are being built; old ones are being repaired and repainted; new locomotives are being purchased, and "improvement" seems to be the watchword of the road. At the shops here several cars are being thoroughly renovated. A palace car will be ready for service in a few days which has been almost built over, so extensive have the repairs been."

....The machinery is now being placed in the new Interna-

tional Line steamer "State of Maine," and work upon her is progressing rapidly. The saloons and staterooms are fast assuming shape, and the company hope to have her ready for her route by June 1st. The steamer Falmouth is now being overhauled and will take the place of the New Brunswick as soon as she can be made ready. With the State of Maine, Falmouth, New York and City of Portland on the route, and the New Brunswick for a spare boat, the International Company can justly consider themselves well equipped for the summer campaign.

The European & North American Railway Company will erect new and permanent machine shops at Mattawamkeag during the coming season. There will be an engine house and the other usual buildings. The main building, which will be constructed of granite and brick, will be 120x60 feet, and a fine structure in every particular. The granite to be used in the construction of these machine shops will come from the quarries of the Jewell Granite Company, in Lincoln, a contract having been made to that effect. The shops of the railway have always been located at Mattawamkeag, but were only temporary buildings.

Hotels and Summer Resorts.

Mr. E. A. Gilson, who is to take charge of the Falmouth Hotel on May 1st, arrived in Portland on Friday last.

The new Heselon House, Skowhegan, was opened on Friday evening, March, 10, by a supper and social gathering.

The Preble House, Portland, is undergoing through repairs and improvements, among which is a new brick ell, consisting of a basement and three stories.

Sanford (York county), is to have a hotel, a much needed institution in that thriving little manufacturing village. The lumber is all ready, and the work of construction will begin at once.

The popular American House, Ellsworth, now owned and run by Arthur I. Saunders, is to be enlarged by a three story addition on the west end having a frontage of 32 feet and running back 90 feet. A portion of the lumber is already on the ground.

Mr. John Lindsey, the veteran White Mountain hotel landlord, will, it is said, erect a \$12,000 hotel at Lancaster, N. H., the coming season, to be known as the Lancaster House. Hon. Jacob Benton will also build a hotel, to cost about \$8,000, at the same place.

Mr. Thomas L. Cleaves will have charge of the Bay View House, Ferry Beach, the coming season. "Tom" officiated in various capacities at the Bay View during last summer, and is very popular. He has been clerking at the American House, Dover, N. H., during the winter.

Mr. R. M. Gibson, formerly of the Gorham (N. H.) House, has leased "The Elms," a pleasant little summer resort at Bethel (Me.), and will open it as a permanent hotel on April 1st. "Max" has good hotel experience and will not have long to wait for customers.—[Mountaineer.

The new Gibson House, at Woodstock, N. B., is one of the best village hotels in the Province. The dining room, parlors and sleeping apartments are large, well furnished and well ventilated, none but first-class help is employed, and the cuisine is excellent. Messrs. A. Gibson & Son are proprietors.

The Waukeag House, the well known summer hotel at Sullivan, has what is undoubtedly the finest location, commanding the finest views, of any hotel on the coast. It has a frontage of 150 feet, is three stories high, and is situated in the immediate vicinity of the mines and granite quarries. This fine property is now for sale, or would be rented for the coming season.

The Copperopolis House, a large and well furnished hotel at the Copperopolis Mine, in the Egypt mining district, is owned by the Copperopolis Mining Company and is well kept by Mr. John Malone. It is at present and will be in the future a great convenience and a valuable auxiliary to the mining interests of the district, which contains within its limits, besides its active and prosperous mines, many very promising prospects as yet entirely undeveloped.

Nuggets.

*The first number of the Deer Isle Weekly Gazette, published at Green's Landing by Mr. Hudson H. Pressy, has made its appearance.

*At the auction sale of delinquent Stewart stock on Saturday last, only 3,868 shares out of the 100,000 issued by the company were sold for non-payment of the assessment.

*Patents issued to Maine inventors, under date of March

21, 1882, reported for the MINING JOURNAL by Wm. FRANKLIN Seavey, Solicitor of patents, Bangor; Method of manufacturing woolen roping or slivers, Richard W. Robinson, Boston, and John Shaw, Dexter, assignors to the Dexter Woolen Mill. Whole number of patents during the week 325.

ECLECTIC MAGAZINE.—The April number of the Eclectic is at hand and contains a very large number of noteworthy and readable articles. The table of contents is as follows: "Science and Morality," by Professor Goldwin Smith; "A Modern Solitary" (meaning Obermann, the German Mystic); "Romance of Business," "Electric Progress," "Lines to a lady who was Robbed of her Jewels," by Francis Hastings Doyle; "The Revision of the French Constitution," by Joseph Reinach; "Mr. Swinburne's Trilogy on Mary Queen of Scots," by G. A. Simcox; "Fashions and Physiology," by J. Milner Fothergill, M. D.; "Let Nobody Pass," A Guardsman's Story," "National Wealth and Expenditure," by M. G. Mulhall; "Oddities of Personal Nomenclature," "Crab Gossip," "The Ameer's Soliloquy," "The Crisis in Serbia," by O. K.; "Robert Southey and Caroline Bowles," "Prince Potemkin," "Degeneration." Beside these there are four well filled Editorial Departments; Literary Notices; Foreign Literary Notes; Science and Art; and Miscellany. Published by E. R. Pelton, 25 Bond street, New York. Terms, \$5 per year; single copy, 45 cents; trial subscription for three months, \$1.

—Among the curiosities at the New York Mining Exchanges are to be found an American Flag from Nevada, a Bonanza Chief from Montana, a Boulder from Colorado, a Black Hawk from Colorado, a Buckeye from Colorado, a Bobtail Tunnel from Colorado, a C(h)ollar from the Comstocks, a Climax from Colorado, some Deadwood from Dakota, a Red Elephant from Colorado, an Ex-chequer from the Comstocks, a Golden Gate from California, a Green Mountain from California, a Gold Stripe from California, a Leopard and a Leviathan from Nevada, a Mammoth from California and a Moose from Colorado; also the original Keystone from Nevada, a Scorpion from the same State, a Shalrock from Colorado, a Savage from the Comstock, a Tiger and a Yellow Jacket from Nevada, a Minor Boy from Colorado, a Bald Mountain and a piece of Malachite from Nevada. They did have a Cedar Tree, a Mineral Creek and a Silver Nugget, but they all got broken and have been removed and stowed away in the garrets.—[Daily Stock Report.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, MARCH 23, 1882.

	Thurs.	Fri.	Sat.	Mon.	Tues.	Wed.
NAME.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Amouez	3	2 1/2	3	2 1/2	3	2 1/2
Atlantic L. S.	14 1/2	14 1/2	15	14 1/2	15	14 1/2
Atlas	...	...	...	...	...	...
Blue Hill Copper	...	...	...	...	...	...
Brunswick	13	10	12	12	13	11
Calumet & Hecla	247 1/2	245	...	242	245	241
Catalpa	...	47 1/2	50c	50c	60c	60
Central	...	...	...	...	...	...
Copper Falls	3	2 1/2	3	2 1/2	3	2 1/2
Contentment	...	...	...	...	...	...
Douglass	...	...	...	...	...	...
Dana	...	...	...	...	...	...
Duncan Silver	...	...	...	...	...	...
Empire	...	...	...	...	...	...
Franklin	10 1/2	11	11 1/2	11	10 1/2	11
Harshaw	2 1/2	2 1/2	3	2 1/2	3	2 1/2
Huron	1 1/2	1 1/2	2	1 1/2	1 1/2	2
Hanover	...	...	...	...	...	...
Humboldt	...	...	...	...	...	...
International	...	...	...	...	...	...
National	2 1/2	2	2 1/2	2	2 1/2	2
Osceola	31	31	32	31	32	33
Pewabic	12	12 1/2	12 1/2	12	12 1/2	11 1/2
Phoenix	...	...	...	...	...	...
Pontiac	...	...	...	...	...	...
Quincy	46	46 1/2	47	45 1/2	46	44 1/2
Ridge	...	...	...	...	...	...
Silver Islet	20	18	20	18	19	21
Star	...	...	...	...	...	...
Sullivan	1 1/2	1	1 1/2	1	1 1/2	1

PALACE CAR TOUR TO CALIFORNIA

Leave Boston April 17th, 45 days' tour, visiting the principal places along the route. Price will include travel, hotels, guides, etc. For circulars address,

WM. E. BROWN, 21 Main Street, Bangor.

SPECIAL NOTICE

Manufacturers,
Merchants,
Miners, and
Capitalists.

THE MAINE MINING JOURNAL, hitherto devoted mainly to the mining interests of the New England States and Provinces, will in the future introduce other departments covering the

Railroad, Manufacturing, and such other INDUSTRIAL INTERESTS as may assist in the developing and building up of the State of Maine and Provinces.

The natural advantages of this section as a manufacturing center are not excelled by any other district in the country. It has most

Magnificent Water Powers, and easy communication by water and rail with the principal markets of the world.

THE MINING JOURNAL will lend its aid toward the development of these vast and varied resources, and will endeavor to furnish fresh and reliable information relating to the manufacture of

Cotton and Woolen Goods,
Boots and Shoes, Canned Goods,
Bricks, Lumber, Paper, Etc.
the Quarrying of
Granite, Marble, Limestone,
and the Mining of
Gold, Silver, Copper, Tin, Lead,
Iron, Etc.;

and it will be our aim to bring the merits and advantages of these various enterprises to the attention of capitalists.

If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

Agents wanted. For terms, address
THE MAINE MINING JOURNAL,
BANGOR, MAINE.

Sale of Delinquent Stock

TWIN LEAD MINING AND SMELTING CO.

Mines at Blue Hill, Me.—Principal Place of
Business, Bangor, Me.

NOTICE—In accordance with the by-laws of the Company, so many shares of each parcel of stock named below as may be necessary, will be sold at public auction, at the Treasurer's office, 4 Main Street Bangor, Me., on Monday, the third day of April, 1882, at 2 o'clock P. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is five (5) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued are as below indicated in their appropriate column.

No. of certificate.	Name.	No. of shares
3.	John S. Jenness.....	500
7.	M. B. Ricker.....	100
15.	J. S. Jenness, trustee.....	1000
19.	John S. Jenness, trustee.....	1000
21.	John S. Jenness, trustee.....	1000
21.	John S. Jenness, trustee.....	1000
22.	John S. Jenness, trustee.....	100
23.	John S. Jenness, trustee.....	100
24.	John S. Jenness, trustee.....	100
25.	John S. Jenness, trustee.....	100
26.	John S. Jenness, trustee.....	100
29.	G. W. Pickering, trustee.....	1000
51.	G. W. Pickering, trustee.....	1000
114.	Jacob Stern.....	50
115.	Jacob Stern.....	100
140.	W. J. Webb, trustee.....	100
143.	W. F. Seavey, trustee.....	100
144.	Jacob Stern.....	100
146.	W. J. Webb, trustee.....	100
170.	B. B. Thatcher.....	200
204.	John R. Mason, Treas.....	500
210.	Mason & Reynolds, trustees.....	100
217.	C. E. Hill, trustee.....	250
218.	C. E. Hill, trustee.....	100
221.	S. S. Fisk.....	100
228.	J. E. Parker, trustee.....	100
243.	J. E. Parker, trustee.....	100
254.	F. H. Williams, trustee.....	100
255.	F. H. Williams, trustee.....	25
262.	Jacob Stern.....	100
362.	Jacob Stern.....	100
363.	Jacob Stern.....	100
365.	John R. Mason, Treas.....	100
366.	John R. Mason, Treas.....	100
390.	G. W. Pickering, trustee.....	500
392.	G. W. Pickering, trustee.....	500
476.	H. N. Pinkham, trustee.....	500
477.	H. N. Pinkham, trustee.....	500
478.	H. N. Pinkham, trustee.....	500
479.	H. N. Pinkham, trustee.....	100
420.	H. N. Pinkham, trustee.....	100
421.	H. N. Pinkham, trustee.....	100
720.	John R. Mason, Secretary, trustee for Twin Lead Copper Mining Company and stockholders.....	4,120

JOHN R. MASON, Treasurer.

Bangor, March 9th, 1882.

For NEW YORK SOUTH and WEST.
FALL RIVER LINE FARE ONLY
FIRST CLASS \$3.00
Limited Tickets.
Boston to New York.

Leave Boston from Old Colony Depot by special express train at 6 P. M. (accommodation at 4.45 P. M.) week days, connecting with steamer at Fall River in ninety minutes.

Tickets, Staterooms and Berths secured at No. 3 Old State House, corner Washington and State streets, and at Old Colony Depot.
J. R. KENDRICK, Supt. L. H. PALMER, Agent,
3 Old State House, Boston.

When answering or referring to our advertisements, please mention this paper.

Bucksport and Bangor R. R.

CHANGE OF TIME, Feb. 20, 1882.

	A. M.	P. M.
Leave Bucksport,	5.30	5.00
Arrive Bangor,	6.42	6.05
Leave Bangor,	7.35	7.15
Arrive Bucksport,	8.45	8.25
A mixed train leaves Bangor at 11.00 A. M. on Mondays, Wednesdays and Fridays.		
Leaves Bucksport Tuesdays, Thursdays and Saturdays, after arrival of steamer.		
The 5.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.		
STAGE CONNECTIONS.—At Bucksport, daily, for Blue Hill, Ellsworth, Penobscot, Castine, Sedgwick and Brooksville.		

L. L. LINCOLN, Supt.

Portland & Boston Steamers.

One of the first-class side-wheel steamers of this line will leave Franklin Wharf, Portland, at 7 P. M., and India Wharf, Boston, at 5 P. M., daily. (Sundays excepted.)

CONNECTIONS are made at Portland with GRAND TRUNK, PORTLAND & OGDENSBURG, MAINE CENTRAL, KNOX & LINCOLN Railroads, and with Steamers of the BANGOR & MACHIAS LINE; and at Boston with all lines for points South and West.

Tourists will find this one of the finest OCEAN TRIPS on the New England coast.

WM. WEEKS, J. B. COYLE, JR.,
Agent, Boston. Gen. Ag't. Portland

Boston, Portland and Machias

EXPRESS.

After the First of November the undersigned will attend to such Express matters as may offer between Machias and Portland direct and to Boston via Sanford Line of Steamers from Rockland.

Good connections throughout New England, and to all points West and South.

Main Offices: 75 Kilby Street, Boston, and 65 Exchange Street, Portland.

Business solicited and prompt attention guaranteed at fair rates.

GILBERT, CRANDON & CO.

BANGOR AND BLUE HILL STAGE NOTICE.

On and after December 1st, 1881, there will be only one Stage a day between Bucksport and Blue Hill.

Stage leaves Bucksport at 9.30 A. M., or on arrival of morning train from Bangor.

Stage leaves Blue Hill at 12 M. to connect with 3 o'clock train for Bangor.

HILL, GOOGINS & CO.
Bucksport, December 1st, 1881.

ROBINSON HOUSE

Livery, Hack and Boarding Stable,
MAIN STREET, BUCKSPORT, ME.

HILL, GOOGINS & CO., Proprietors.

Good reliable horses for ladies' and family use, furnished to order. Hacks for pleasure parties or funerals. Come and see us and the prices will be all right. Orders left at the Robinson House and Stable.

PENDLETON HOUSE

Blue Hill, Me.

IS NOW OPEN TO THE PUBLIC

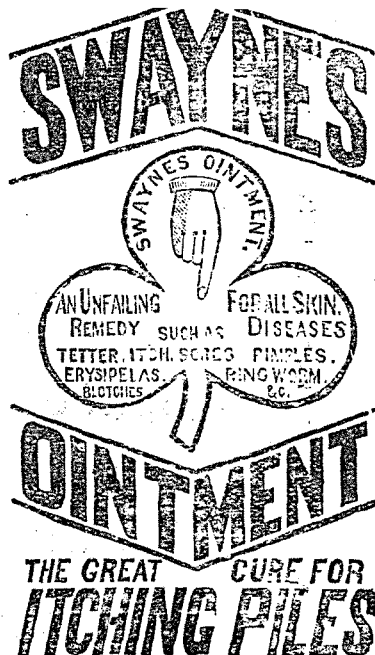
12 Livery Stable connected with the House.

JOHN M. MERRILL, Proprietor.

ROBINSON HOUSE,

Bucksport, Me.

J. F. MOSES, Prop.



THE GREAT CURE FOR ITCHING PILES
Symptoms are moisture, stinging, itching, worse at night; seems as if pin-worms were crawling about the rectum; the private parts are often affected. Aaa pleasant, economical and positive cure, SWAYNE'S OINTMENT is superior to any article in the market. Sold by druggists, or send 50 cts. in 3-ct. Stamps. 3 Boxes, \$1.25. Address, Dr. SWAYNE & SON, Phila., Pa.

FOR SALE.

The Valuable Property known as the Bakeman Estate, IS OFFERED FOR SALE.

Price, \$40,000 cash.

The property consists of over 500 acres of mineralized land, adjoining the celebrated Cape Rosier Mining property, and is acknowledged by the most celebrated experts of this country to contain, not only the continuation, but the richest part, of the Cape Rosier veins. George H. Blake, No. 93 Exchange Street, Portland, Maine, is the sole agent in charge of this property, to whom all communications may be addressed.

THE COST OF ADVERTISING.

For any responsible advertiser, making application in good faith, we prepare and furnish a written estimate, showing the cost of any proposed advertising in the leading Newspapers of the United States and Dominion of Canada.

We prepare and exhibit printed proofs of any proposed advertisement.

For the preparing of estimates no charge is made, and the applicant is placed under no obligation to transact his advertising business through us unless it appears to him that by doing so he will best advance his own interests.

A copy of the advertisement, a list of the papers, the space the advertisement is to occupy and the time it is to appear, should all be given with the application for an estimate of the cost.

When an advertiser does not know what he wants or what he ought to do, he can designate some sum of money within which he wishes to limit his expenditure; this will enable us to prepare for him such a list of papers as will be the best for his purpose, within the limits which he prescribes.

Send 10c. for 100-page pamphlet. Address

GEO. P. ROWELL & CO.

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BLUE HILL, MAINE.
Special attention paid to Mining titles and rights.
O. H. TRIPP,
CIVIL AND TOPOGRAPHICAL ENGINEER,
BLUE HILL, MAINE.

FIRE BRICK
FOR SMELTING FURNACES,
Akron Salt Glazed Drain Pipe.
FISKE & COLEMAN,
Manufacturers and Importers,
72 Water Street, Boston.

We have made the wants of mining companies our study.

Copper, Zinc and Lead Ores WANTED.

Highest market prices paid. First-class, responsible buyers. Advances made on cargoes. Send analyses, amount per month, samples (25 or 50 lbs.) Address, B. BARNES, Jr., Broker, 80 Exchange Street, Portland, Me.

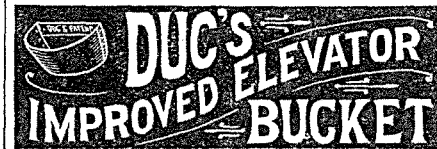
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Booksellers and Stationers,

—DEALERS IN—
Room Papers, Borders and Curtains, Wrapping Paper, Bags and Twine.
American and English Tissues, Card Boards & Fancy Papers.
No. 142 Exchange St., Bangor, Me.
JAS. D. GLYNN. EDW. W. REYNOLDS.

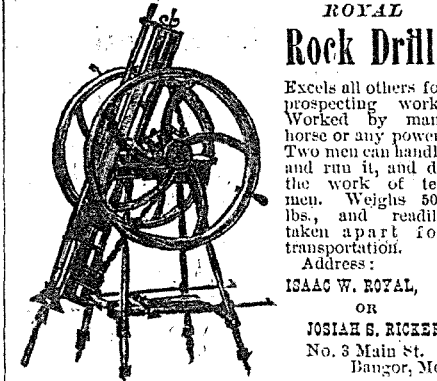
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Account Book Manufacturers,
Kenduskeag Bridge, Bangor, Me.

Also furnish Mining Stock Ledgers, Journals, etc. Every description of Stationery constantly on hand.

WELL BORING, ARTESIAN WELL DRILLING & MINERAL PROSPECTING MACHINERY
and how to use, is fully illustrated, explained and highly recommended in "American Agriculturist," Nov. No. 1879, page 463. Send for it. Portable, low priced, worked by man, horse or steam power. Needed by farmers in every county. Good business for winter or summer and very profitable. Makes wells in earth or rock anywhere. We want the names of men that need wells. Send stamp for illustrated price list and terms to Agents. Pierce Well Excavator Co., 39 Bece Street, New York, U. S. A.



For use in GOLD AND SILVER ores, and any material Extra strong and durable. No corners to catch. Do not buy imitations.
Address CONTINENTAL IRON WORKS, Sole Manufacturers, Brooklyn, N. Y.



ROYAL Rock Drill.

Excels all others for prospecting work. Worked by man, horse or any power. Two men can handle and run it, and do the work of ten men. Weighs 500 lbs., and readily taken apart for transportation.

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BECKWITH'S GUIDE
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Gives the most accurate description of the country and its mineral wealth yet published. Single copies, 10 cents. Special rates to dealers. Address, D. A. BECKWITH, Socorro, N. M.

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Future Great Mineral District
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SOCORRO MINER,
Weekly and semi-Weekly,
Terms—Weekly, \$3.00 per year; 6 mos., \$2.00
Semi-Weekly, \$5.00 per year; 6 mos., \$3.00
Invariably in advance.
Address, D. A. BECKWITH,
Socorro, New Mexico.
[ESTABLISHED 1848.]

THE HAZARD MFG. CO.,
Manufacturers of
IRON AND STEEL
WIRE ROPE

OFFICE AND WORKS, WILKES-BARRE, PA. OFFICE AND WAREHOUSE, 87 LIBERTY ST., N. Y.
Send for Circular.

Delinquent Sale Notice.
Douglass Copper Company.

Location of principal place of business, Bangor, Maine.

Location of mine, Blue Hill, Maine.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, payable November 30, 1881, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. certificate.	No. shares.	Am't
Wm. D. Swazey, treasurer, trustee	50	1000	\$1000
Wm. D. Swazey, treasurer, trustee	608	1000	1000

And in accordance with law and an order of the Board of Directors, so many shares of each parcel of such stock as may be necessary will be sold at public auction, at the Treasurer's office, in Bangor, Me., on FRIDAY, the twenty-first day of April, 1882, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

FRANK H. WILLIAMS, Treasurer.
Office, 12 West Market Square, Bangor, Me.

Just the Thing that Fifty Millions of People Want!

CUSHING'S PERFECTION INK POWDERS!

The Best Selling Article Yet Offered for Agents. Something You can Sell at Every House!

One package will make one pint Brilliant Writing Ink, with the addition of boiling water only; will make Copying Ink or Rubber Stamp Ink. Full directions with each package. NAMES OF COLORS:—Orange, Carmine, Scarlet, Red, Crimson, Purple, Violet, Green, Blue, Brown, Blue-black, Black. Price 10 cents per package by mail, or 75 cents per dozen. Wholesale and retail by

A. M. ROBINSON, Jr., Agent, Apothecary, Bangor, Maine.

To whom all orders should be addressed.

**H. N. PINKHAM,
STOCK BROKER,**

Member of Boston Mining and Stock Exchange,

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Particular attention paid to orders in Maine Mining Stocks.

Reed's Sectional Covering,

For Boilers, Steam and Water Pipes.

It is cheap, durable, and the best non-conductor of heat of any covering made. It can be taken off and replaced on the pipes any number of times without injury to the covering. Any person can put it on the pipes. SEND FOR A CIRCULAR.

J. A. LOCKE & SON, 40 Courtlandt Street, New York.

ESTABLISHED 1871.

Maine State Assay Office.

FRANK L. BARTLETT,

Assayer and Chemist for the State of Maine.

Office and Laboratory, 385 Congress Street, Portland, Me.

All assays made at the Maine State Assay Office are duplicated and will be guaranteed correct. Samples always retained and in case of doubt will be submitted to the U. S. Assay Office for adjustment.

Samples of Ores and minerals forwarded will receive attention from Mr. Bartlett personally.

Full and complete analyses of ores and all mineral substances will be a specialty. Having a laboratory complete in every particular and fitted with all the modern improved apparatus, superior facilities are afforded for chemical work either medical, legal, microscopical or analytical.

Maine ores and all the leading European and Western ores can be seen at the Maine State Assay Office. Mining men and others are invited to call. Send for circular.

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GENERAL BROKER and MINING AGENT.

28 St. Francois Xavier St., Montreal.

BERTRAM L. SMITH,

Counsellor at Law,

BANGOR, MAINE.

Will attend to business in all parts of the State.

WM. S. CLARK.

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CLARK & BOTHWELL,

—Dealers in—

Dividend Paying Mining Securities

Managers of
Starr-Grove Silver Mining Co., Nev.; Stormont
Silver Mining Co., Utah; Hite Gold
Quartz Co., Cal.

Office, No. 2 Nassau St., corner of Wall, New York.

GOLD and SILVER!

R. LONGMAN'S SONS,

Refiners and Smelters of Gold and Silver.
Bullion Purchased. Assays of Ore a Specialty.

Office, 9 John St., NEW YORK.
Works, 25 to 31 North Portland Ave., Brooklyn.

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**Smelting and Reduction
WORKS,**

Manufacturers of Sulphuric Acid, Smelters and Refiners of Ores and Metals.

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Purchased at market rates.

R. G. BEARDSLEE, New York, President.
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BOSTON ORE MILLING and METALLURGICAL WORKS

Metallurgists, Assayers and Analytical Chemists.

GOLD AND SILVER REFINERS.

Ores Crushed, Sampled and Tested.

PRACTICAL MILL RUNS 500 POUNDS AND UPWARDS.

Assays of Ores and Metals.

Refractory Ores Treated by a New Process

SURVEYS, EXAMINATIONS, REPORTS, SKETCHES AND MAPS CAREFULLY MADE.

Construction of Works and Supplies Furnished.

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Geo F. Bailey

Maine Mining Journal.

DEVOTED TO THE MINING AND INDUSTRIAL INTERESTS OF THE NEW ENGLAND STATES AND BRITISH PROVINCES.

[Entered at the Post Office in Bangor, Maine, as second-class mail matter.]

5.—14.—119.

BANGOR, MAINE, APRIL 7, 1882.

{ \$2 per Year;
6 Cents per Copy.

FRANK H. WILLIAMS & CO., MINING STOCK BROKERS.

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Blue Hill Copper Mining & Smelting Co.

OFFICE, Rooms 14 and 15 Simmons Building, BOSTON, MASS.

MINES, BLUE HILL, ME.

Capital, \$500,000. 100,000 Shares. Par Value, \$5.00.

S. C. BLANCHARD, President.

WM. M. JEWETT, Treasurer.

JOHN M. MERRILL, Secretary.

J. H. MOYLE, Superintendent.

Cherryfield Silver Mining Co.

OFFICE, CHERRYFIELD, ME. MINES, CHERRYFIELD, ME.

Capital \$500,000. 100,000 Shares. Par Value \$5.00**Unassessable.**

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WM. FREEMAN, Secretary and General Manager.

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WM. A. LEONARD, Supt.

Copperopolis Mining Company.

OFFICE, 4 SEARS' BUILDING, BOSTON, MASS.

Capital, \$500,000. Par Value of Shares, \$2.50.**Unassessable.**

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S. L. SYMONDS, Treasurer.

W. OSCAR ARNOLD, Secretary.

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JOHN SHOENBAR, Superintendent.

Deer Isle Silver Mining Co.

OFFICE, PORTLAND, ME. MINES, DEER ISLE, ME.

Capital, \$500,000. 100,000 Shares. Treasury Fund, 52,000 Shares.

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GEO. F. GOULD, Treasurer.

GEORGE F. GOULD, Secretary.

Directors—A. H. Harris, of New York; Nathau Cleaves and Frank C. Crocker, of Portland; C. W. Bryant, of Deer Isle and George D. Greeley, of Boston.

S. Z. DICKSON, Superintendent.

Gouldsboro Silver Mining Co.

OFFICE, ELLSWORTH, ME. MINES, GOULDSBORO, ME.

Capital, \$500,000. 100,000 Shares. Par Value, \$5.00.

Judge A. P. WISWELL, President.

C. C. BURRILL, Treasurer.

J. B. REDMAN, Sec'y. FRANCIS WORCESTER, Manager.

Directors—A. P. Wiswell, C. C. Burrill and Eugene Hale, all of Ellsworth.

W. I. VALENTINE, Superintendent.

Milton Mining Company.

OFFICE, 4 SEARS BUILDING, BOSTON, MASS.

Mines, West Sullivan, Me.

Capital, \$1,000,000. 200,000 Shares. Par Value, \$5.00

WM. D. LEWIS, Pres't.

GEO. E. HARRINGTON, Treas.

HORACE T. STARR, Secretary.

Directors—WM. D. LEWIS, GEO. E. HARRINGTON, C. F. MACKENZIE, WM. J. MANN, GEO. WEST, HENRY R. GARDNER and GEO. F. ROPES.

JOHN SHOENBAR, Superintendent.

Mammoth Copper Mining Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

250,000 Shares.

Par Value, \$2.00.

EUGENE M. HERSEY, President.

JOHN R. MASON, Secretary.

G. W. PICKERING, Treasurer and Transfer Agent.

W. D. LEWIS, Assistant-Treasurer and Secretary.

Directors—E. M. HERSEY, T. N. EGERY and SAMUEL STERNS, of Bangor; W. D. LEWIS, of Boston and CHAS. DUFF, of Blue Hill.

CHARLES DUFF, Superintendent.

Pine Tree Silver Mining Co.

OFFICE: 21 BROAD STREET, NEW YORK; MINES, SULLIVAN, MAINE

Capital, \$500,000.**Par Value of Shares \$5.00.****Unassessable.**

GEN. JOHN M. CORSE, President.

ROBERT L. CUTTING, JR., Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—COL. CHAS. H. LEWIS, GEN. JOHN M. CORSE and ROBERT L. CUTTING, JR., of New York.

Stewart Copper Mining Com'y.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

HON. FREDERICK M. LAUGHTON, President.

C. F. BRAGG, Treasurer.

C. F. BRAGG, Secretary.

Directors—Frederick M. Laughton, F. W. Hill, C. F. Bragg and Thomas White, of Bangor; S. N. Stockwell and G. B. Putnam, of Boston.

DANIEL DUNN, Superintendent.

Sullivan Mining Company.

OFFICE, 17 Tremont Bank Building, BOSTON, MASS.,

MINES, SULLIVAN, ME.

Capital, \$500,000.

100,000 Shares.

Par value, \$5.00.

GEORGE B. BROWN, President.

F. R. NOURSE, Treasurer.

CHARLES L. PERRIN, Secretary.

Directors—Geo. B. Brown, B. S. Grant, C. F. Farrington, J. G. Russell, Dudley R. Child, E. A. Birchard and Frederic R. Nourse.

Twin-Lead Mining and Smelting Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

125,000 Shares.

Par Value, \$4.00.

EUGENE M. HERSEY, President.

SAMUEL STERNS, Vice President.

JOHN R. MASON, Secretary and Treasurer.

Directors—E. M. Hersey, Samuel Sterns, John S. Jeuness, Jacob Stern, F. H. Williams and Thomas N. Egery, of Bangor; Charles Duff, of Blue Hill.

CHARLES DUFF, Superintendent.

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Copper & Silver Mining Co.

Office at Ellsworth, Me.

Mines at East Surry, Me.

Capital \$500,000. 500,000 shares. Par Value \$1.00, unassessable. 368,500 in Treasury.

President, Jas. W. Davis; Treasurer and Secretary, M. Donelan.

Directors, Jas. W. Davis, Ellsworth, Me.; M. Donelan, East Surry, Me.; Dr. L. W. Hodgkins, Ellsworth, Me.; Major General Conyers Tower, England; Hon. Jas. F. Davis, Mayor of Ellsworth; A. W. Clark, H. B. Mason, Ellsworth, Me.

M. DONELAN, Supt.

YOUNG HECLA

Mining and Smelting COMPANY.

Office at Bangor, Me. Mines at Blue Hill, Me.

Capital, \$500,000.

100,000 Shares. Par Value, \$5.00 each. Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor, Me.; Vice President, Charles Hamlin, Bangor; Treasurer, C. P. Wiggin, Bangor; Secretary, C. F. Wiggin, Bangor. Directors—John S. Jenness, Charles Hamlin, Wm. D. Swazey, F. M. Loughton, Ruel Smith, Horace P. Tobey and Frank H. Williams.

F. H. WILLIAMS & CO., Financial Agents.

BLUE HILL CENTRAL

Mining and Smelting COMPANY.

OFFICE.....BANGOR, ME.
MINES AT.....BLUE HILL, ME.

CAPITAL, \$500,000.

100,000 Shares: Par Value, \$5.00. Treasury Fund, 30,000 Shares.

Hon. Wm. C. Marshall, of Belfast, President; H. J. Preble, Esq., Vice-President; S. P. Johnson, Secretary and Treasurer; Directors—Hon. Wm. C. Marshall, H. J. Preble, Esq., Samuel R. Prentiss, J. S. Jenness and M. Preble.

Silver Hill Mining Company.

Office, 11 CENTRAL STREET,

Room 4, - - - Boston.

Mines at Garland, Me.

Capital, \$500,000. 200,000 Shares. Par value, \$2.50. 25,000 Shares in Treasury.

President, John F. Hudson, Boston; Treasurer Chas. E. Parent, Boston; Clerk, Geo. A. Mudge Portsmouth, N. H.

Directors—John F. Hudson, Geo. A. Goodyear and Chas. E. Parent, of Boston; Geo. E. Hodgdon, of Portsmouth, N. H.

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Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund \$6,000 shares.

President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

EXETER SILVER MINING COMPANY,
Exeter, Me.

Capital, \$500,000. Shares \$5 each, unassessable; 40,000 shares in the Treasury.

President, D. N. Estabrooks; Vice President, J. Y. Richardson; Secretary and Treasurer, J. A. Blanchard. Directors—D. N. Estabrooks, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Lane, of Oldtown; Sargent, of Brewer, and Charles Greenwood, of Corinna.

Office at Oldtown, Me.

FAVORITE MINING COMPANY.

Bluehill, Me. Incorporated July 1, 1881.
Capital, 500,000 Shares, \$5 each; assessable.
President, A. E. Herrick, Bluehill. Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

FRANCIS HALL & SULLIVAN MINING CO.
Incorporated Feb., 1880.

Capital, \$500,000, divided into 100,000 shares, forever unassessable.

Company's office at the Mine, West Sullivan.
President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Farnum, F. W. Morrill and F. S. Tuttle, Boston; A. A. Hayward, Bar Harbor, Me.
A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY
Blue Hill, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emery G. Ingalls, of Bangor; Alvin Rodolf, of Boston; Arthur S. Newman, of Portland; Roderick H. Candage, of Blue Hill.

MC FARLAND SILVER MINING COMPANY
Hancock, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman.
F. A. McLAUGHLIN, Supt.

ROBERT EMMETT SILVER MINING CO.
Egypt Bay, Hancock, Me. Incorp. July, 1879

Capital, \$400,000; Shares, \$10 each.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

SNOW SILVER MINING COMPANY.
Bucksport, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

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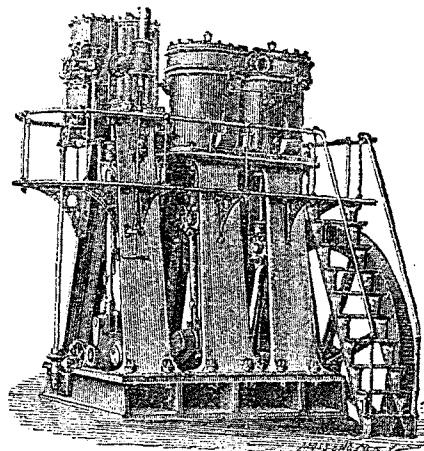
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M. S. GIBSON, Vice President, Portland.

F. H. WILLIAMS, Treasurer, Bangor.

C. W. HOBBS, Secretary, Portland.

DIRECTORS:

Hon. F. M. Laughton, F. H. Williams and John S. Jenness of Bangor; M. S. Gibson of Portland, and E. H. Osborne of Boston.

SUPERINTENDENT:

J. M. JOHNSON, Gorham, N. H.

FINANCIAL AGENTS:

F. H. WILLIAMS & CO., Boston.

To Contractors and Miners.

Proposals will be received at the office of the Fenwick Hill Mining Co., Sullivan, for ten days from date, for driving a crosscut fifty feet more or less. The company will find one Ingersoll Rock Drill and also find air for same, and sharpen all tools; the contractor to pay all losses on tools or make the same good. Ten feet can be driven per week with ease. The contractor to furnish all explosives and to put the rock into the bucket ready for hoisting. All supplies will be furnished by company at cost.

For further particulars inquire at the office.

A. A. JAYWARD, Supt.

Sale of Delinquent Stock

YOUNG HECLA MINING and SMELTING CO.

Mines at Blue Hill, Me. Office, No. 12
West Market Sq., Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, No. 12 West Market Square, Bangor, Me., on Friday, the fourteenth day of April, 1882, at 11 o'clock A. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is five (5) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued, are as below indicated in their appropriate column.

No. of Certificate.	Name.	No. of Shares.
No. 19.	C. P. Wiggins, Trustee.....	100
" 24.	C. P. Wiggins, Trustee.....	100
" 32.	C. P. Wiggins, Trustee.....	100
" 33.	C. P. Wiggins, Trustee.....	100
" 37.	C. P. Wiggins, Trustee.....	100
" 53.	C. P. Wiggins, Trustee.....	100
" 56.	C. P. Wiggins, Trustee.....	100
" 57.	C. P. Wiggins, Trustee.....	100
" 114.	A. P. Wiswell.....	50
" 125.	C. P. Wiggins, Trustee.....	100
" 160.	John E. Conlon.....	100

1,500

CHARLES P. WIGGIN, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER
OF THE

Young Hecla Mining and Smelting Company.

Mines, Blue Hill, Me.

Office, 12 West Market Sq., Bangor.

BANGOR, ME., March 27, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 20th day of March, 1882, an assessment of five (5) cents per share was levied upon the capital stock of this corporation payable to the Treasurer on or before the 15th day of April, 1882.

Any stock upon which the assessment shall remain unpaid on the 15th day of April, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates that payment may be endorsed thereon.

By order of the Board of Directors,

CHARLES P. WIGGIN, Treasurer.

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Assessment Notice.

OFFICE OF THE

TWIN LEAD MINING AND SMELTING CO.

OF MAINE.

4 MAIN STREET, BANGOR, March 25, 1882.

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, April 24th, 1882.

Any stock upon which the assessment shall remain unpaid on the 25th day of May, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates, that payment may be endorsed thereon.

By order of the Board of Directors,

JOHN R. MASON, Treasurer.

COLBY'S MAP

OF THE

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W. F. BLANDING, }

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

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THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, APRIL 7, 1882.

The excursion to the Mascot Mines has been postponed to Thursday of next week.

In the New Brunswick House of Assembly, on Tuesday last, Hon. Mr. Marshall eulogized the construction and workmanship of the Grand Southern Railway, and pointed out that, extending by Sherbrooke, it would bring St. John within 456 miles of Montreal, and that within a year and a half.

A mine is a living being. The shafts and winzes are its lungs through which it breathes. The pipes or tubes of its pumps constitute a system of circulation. It lives upon the fuel fed to its engines, and it has a name, a personality, and even a sex, for with the miner as with the sailor in regard to his ship, the mine is *she*. From her are born products which enrich mankind.—[Mining Record.]

NEW YORK, March 28.—Can you get for me the address of some of the principal slate quarries in Bangor, Maine, and oblige,
J. E. R.

Unable to answer Mr. Russell's query, we publish it with the hope that the information will be communicated to us.—[New York Mining Record.]

For the benefit of our contemporary we publish the following addresses: Blanchard Slate Company, Dr. A. C. Hamlin, President; Brownville Slate Company, H. A. Merrill, Agent, 20 Broad Street. These are, we believe, the only slate companies at present having offices in this city.

The press of Maine is almost a unit in its advocacy of the measure now pending in Congress which will secure for the State a complete and thorough geological survey. That this is needed, in view of the valuable mineral developments continually being made, and in view, too, of the fact that mining is rapidly coming to be one of the established industries of the State is evident to any one at all conversant with the present state of affairs. The chances for the measure being favorably acted upon are good, and if it is, the results are likely to be of very great value.—[Boston Traveller.]

Most of our readers have learned, through the daily press, of the recent disastrous fire at Amherst College, which included among the valuables destroyed the famous Shepard collection of minerals, valued at nearly \$100,000, and representing the labors of a long and busy lifetime. Professor Shepard made a speciality of collecting tourmalines and meteorites, and his cabinet of these gems and curiosities was one of the finest in the world. It is with intense gratification that we learn, through a private letter received by Dr. A. C. Hamlin, of this city, that the tourmalines, as well as all the finer small meteorites of the collection, were locked up in the fire proof vault and are probably safe; while the larger meteorites had, by chance, been removed from the building the day preceding the fire. There is, therefore, every probability that the collection of tourmalines will, as previously arranged, be on exhibition at the meeting of scientists at Mount Mica, in this State, in September next.

We regret to learn that the borings for oil in the vicinity of Lake Ainslie, Cape Breton, have not been successful; and that, as would appear from the report of the Geological Survey made last season by Mr. Hugh Fletcher, the "Cape Breton Oil Lands," about which so much has been said and written, have no existence in fact. The report says: "Early in the season a few days were spent in defining the limits of the carboniferous and older formations in the neighborhood of Whyecomah and the head of Lake Ainslie. Attention was then directed to the reported coal oil regions around this lake. No oil has yet been struck, and the money spent seems to have been thrown away. It is supposed that operations were commenced because of the finding of drops of petroleum which oozed from the dark, bituminous sandstone and shale on the lake shore. The explorations were first carried on at the west side of the lake, where several stationary engines and derricks now lie idle and rusting; then bore holes were made on the east side, and also at MacRae's Bridge near Baddeck. The sensational reports which have appeared in the Cape Breton and Boston newspapers, of the wonderful flow of petroleum from the wells, were altogether without foundation."

Sales of Maine mining stocks at the Boston Mining and Stock Exchange for the week ending Wednesday, April 5, aggregated 50,142 shares, as follows: 21,200 Deer Isle, at prices declining from 19 to 15c; 4,700 Twin Lead at 3 and 4c; 8,000 Milton at 5 and 6c; 10,700 Milton, assessment paid, at 15 to 18c, closing at 16c; 2,600 Douglass at 50c; 1,000 Mammoth at 5c; 642 Sullivan at \$1.50 to \$1.37 1-2; 500 Blue Hill at 35 and 32c; 600 Copperopolis at 3c. The only sales of Maine shares at the Stock Exchange were 742 Sullivan at \$1.50, \$1.62 1-2 and \$1.37 1-2, and 100 Douglass at 50c. Concerning the future outlook for the Mining Exchange, the Traveller says: "Instead of the Boston Mining and Stock Exchange being closed at an early date, as erroneously reported by a contemporary last week, business is now on the increase. Many of the objectionable features that have in the past been injurious to the Exchange have been done away with, and the officials are now doing all in their power to still further better its condition and to re-es-

establish the confidence of the public in it." We take it that the managers of the institution have discovered that it is much easier to start aright in the first place than to get back upon a sound and honorable basis after having once gone wrong.

In Clarence King's census report on the production of the precious metals, Maine is set down as having produced bullion from ore raised and treated during the census year valued at \$10,199, and New Hampshire bullion valued at \$26,999.

The above item has been going the rounds of the newspapers of late, accompanied frequently by slurring comparisons of the value of the production, as shown by the figures quoted, with the amount of money already expended in mining operations in Maine and New Hampshire. While we have no reason to question the correctness of the figures given in the census report, the above statement given at this late date is generally misunderstood and is productive of much harm. In the first place it must be borne in mind that these figures represent only the *bullion* produced. The same report gives the actual value of the ore raised during the census year, in Maine, as \$65,766. It must also be remembered that this product is silver and gold only, and does not include our copper mines, which to-day constitute the principal mining industry of the State. But the most important point to be considered is the fact that the census year ended on May 31, 1880, very nearly two years ago! As that was the year in which Maine mining operations were commenced, and during which little more was done than to scratch the surface of the ground with the expectation of finding deposits of gold and silver already coined, the wonder is that the statistician who visited the mining localities of this district succeeded in procuring *any* figures of production to insert in his report.

It is stated by persons who have investigated the subject that the result of copper mining in Maine thus far has been a product of 17,000 pounds, at an expense of \$500 per pound.

We do not know where the above item originated, but we find it copied with apparent avidity into most of our exchanges, particularly a certain class of the State papers, which have a keen eye for such morsels. The "persons" who have investigated the subject and made the statement quoted are infernal liars; but suppose the statement to be true, and what then? In our last issue we gave a brief description of a new manufacturing enterprise on the Kennebec—the mills of the Southard Manufacturing Company, erected for the purpose of making cotton bags. Their cost of construction and equipment we do not know, but it could not fall far short of \$100,000. The same item also stated that their first shipment (we believe of 1200 bags) had just been made. These bags retail at a price certainly not exceeding ten cents each. A most reckless and insane expenditure of money, surely, to manufacture \$120 worth of goods at a cost approaching if not exceeding \$100,000! And yet the company do not appear to be discouraged; the mills are still running and turning out their product each day just as if the enterprise was a profitable one. Until the Maine mines are abandoned, and have stopped producing copper, let us hear no more of this sickening twaddle. It only betrays the calibre of the author, as well as the editor who inserts it in the columns of his paper.

THE TURN OF THE TIDE.

[New York Daily Stock Report.]

The wind has turned, the tides have reversed, and the gloomy outlook of the past few months in mining has all changed. Capital is sailing with the current, and drifting mineward. At the Exchanges, and at the mining camps, there is visible proof that we are out of the woods. The greatly increased business, and diversity of dealings at the former, are well supplemented by the soothing music of the stamps at the latter.

All goes well, and we may fresh heart and courage take at the prospect before us. The doubters have become convinced that there is a substantial sub-strata to mining that cannot be moved from its base by every trifling tide. It is as plain as two and two makes four, that if mineral exists in paying quantities, a fact easily determined, it pays to extract it. Capital is appreciating this fact and seeking properties possessing that qualification.

From every State and Territory where the precious metals are known to exist in large quantities comes good news that prospects are becoming mines and mines bonanzas. Even from New Hampshire, where the Saco's winding stream finds its way through the White Hills, comes reports of profitable mining, and if it pays there, where but the minimum of product exists, of what must it be capable in those sections which have been built up chiefly by the growth of the mining industry? There is no limit for our generation to the yield of mines, and, with improved machinery, increased railroad facilities, new mining fields and abundance of capital eager to seek better investment than at present,—and what is there that approaches mining in results when judiciously employed?—we may be justified in believing that a genuine mining boom is in progress.

Personals.

F. H. WILLIAMS and Geo. B. WIGGIN have visited Blue Hill during the week.

CAPT. J. H. MOYLE and CAPT. DANIEL DUNN, of Blue Hill, were in the city on Wednesday.

WILLIAM CROSBY, Esq., formerly of this city, has been elected President of the San Francisco bar.

MR. JOHN SHOENBAR, Superintendent of the Milton, returned to Sullivan from Boston on Saturday last.

HORACE T. STARR, Secretary of the Milton, has returned to Sullivan after an absence of six weeks in Massachusetts.

MR. STANLEY T. PULLEN, of the Portland Press, has returned to Maine after a sojourn of some weeks in Colorado.

MR. JAS. MURRAY KAY, of the St. John and Maine Railway, sailed from England for his St. John home on Wednesday.

COL. J. N. GREENE, of the Grand Southern Railway, is at Ottawa in the interest of the proposed railway bridge across the St. Croix at St. Stephen.

MOSES TAYLOR, of New York city, has given a quarter of a million of dollars for the purpose of founding and maintaining a hospital at Scranton, Pa., for the benefit of miners, railroad men, iron workers and others.

MR. F. O. BEAL has been presented with a fine live buck and doe and they are now at the Bangor House stables. The buck is two years old and the doe about one year. They are handsome animals and have been much admired.

DR. MELVIN PREBLE has returned home from a four weeks' trip through New Mexico and Arizona. The Doc-

tor met our old friend Thomas Cahill at Socorro, where he is at present located. Both Tom and his estimable wife, we are pleased to learn, are in excellent health.

Concentration, Smelting and Milling,

APPLIED TO ORES OF THE EASTERN STATES AND PROVINCES.

BY F. L. BARTLETT, STATE CHEMIST, PORTLAND, ME.

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[CONTINUED FROM LAST WEEK.]

CLASSIFYING ORES FOR CONCENTRATION.

Most of the ores of the New England States and Provinces are either smelting or concentrating, excepting, of course, the gold ores. The only ores which admit a milling treatment known in this part of the country are those of the Sullivan lode in this State. The ores from this lode are mixtures of native silver, tetrahedrite, brittle silver and chlorides combined with small amounts of galena, arsenical pyrites and iron pyrites; such ores are best worked by the milling process. Gold ores are generally free milling, although very many of the mines of Nova Scotia and the Canadas, as well as New Hampshire and the Southern States, admit of concentration, owing to the fact that they contain large quantities of pyrites which often contain more gold than the quartz. This subject will however be treated further on and under the head of gold ores.

It may be considered that all concentrating ores are *smelting* ores—that is, smelting is the method usually employed to reduce the concentrates of all ores of whatever nature. All ores occur associated with more or less gangue rock which may be quartz, limestone, slate or porphyry; as a rule the gangue is quartz. Such gangues cannot be removed by smelting except by the addition of large quantities of fluxes, which renders the operation too expensive. The object of concentration is to remove the rocky and worthless parts from the metallic or valuable constituents. Not infrequently it may be desirable to remove also some objectionable mineral matter or ore—as zinc blende, which might interfere with the subsequent operation of smelting. Concentrating ores may be divided into two classes—*simple* and *complex*. The first includes those which contain one ore only to be separated, as galena from quartz, or copper pyrites from quartz. The latter class contains more than one ore, as when galena and blende occur in combination, or copper and blende, and require to be separated from each other as well as from the gangue rock. The following list comprises about all the ores known in the Eastern States and Provinces which can be concentrated, the ore easiest of concentration being named first, each succeeding one being a trifle more difficult.

SIMPLE ORES.

Galena coarsely disseminated in gangue of quartz, quartzite or limestone. Example—Galena ores of the Mascot and Shelburne Mines, Gorham, N. H.—Newburyport, (Mass.) ores.

Zinc Blende—massive variety, in quartz or quartzite. Example—Zinc ores of Cutler, Me., and Warren, N. H.

Chalcopryite—or pure copper pyrites in gangue of quartz, quartzite, slate or limestone. Example—Quint Mine, Lisbon, and Dalton Mine, N. H., the Manhattan and Tapley of Brooksville, Me., and Harvey Hill ores, Quebec.

Cupriferous pyrites in quartz, quartzites, or slaty rocks. Example—Blue Hill ores, of Maine, Betts Cove ores, Newfoundland, Gardiner Range ores, N. H., and Capelton ores, Canada. This class is very abundant in the Canadas, Maine, New Hampshire, North and South Carolina and Virginia.

COMPLEX ORES.

Galena with Blende in quartz or quartzite gangues. Example—Warren Mine and Silver Lake Mine, of New Hampshire, Cherryfield Mine, Maine, and Lubec Mines of Maine.

Zinc Blende with fine Galena—mixed gangue rocks. Example—Deer Isle Mine, Maine.

Copper Pyrites and Zinc Blende in quartz and quartzite rocks, often slaty or porphyritic. Example—Cape Rosier Mine and Hercules Mine, Brooksville, Maine.

The two last mentioned varieties of complex ores are extremely difficult to separate by any form of concentrating machinery, often impossible, depending greatly upon the state in which the ore occurs; if in a finely divided state throughout the rock, the ore is much more difficult of separation—indeed may be impossible. Carbonate and oxide ores do not occur in the Eastern States and only to a limited extent in the Provinces; it is needless to say that such ores cannot be concentrated. Native copper is said to occur in Nova Scotia to some extent, but it is too scarce east of Lake Superior to be ranked in

our list of concentrating ores. It is easily concentrated, however, and would rank first class in concentration.

It will be seen that we head our list of concentrating ores with coarse galena. Galena is manifestly the best concentrating ore we have, and yet it makes a vast difference whether the galena exists in the rock in coarse crystals or in fine grains. If it is found in the gangue in coarse crystals pretty evenly distributed throughout the gangue, it is in the best possible form for easy concentration. The same is true of all the other concentrating ores—the coarser the better. It is evident that if the ore is fine we must crush our rock much finer to liberate the minute particles than would be necessary if the rock contained coarse crystals of ore. Now it increases the expense greatly to crush fine, and that is not all. In crushing to a fine state of division we suffer vastly greater loss from slimes and fine stuff, while much more complicated and expensive machinery is required to do the work.

Of all the numerous machinery yet devised for separating ores the old fashioned jig is undoubtedly the cheapest and best for galena ore, and if the ore can be kept moderately coarse the better work it performs; consequently it is economy and prudence to crush coarsely if the ore will admit it. In working the complex ores two separations are necessary with most of the machinery now in use; the first to separate the ore from the rock, the second to separate one ore from another. This, although somewhat difficult, is performed quite satisfactorily by a number of machines now in use and which I shall refer to under the proper head. I believe that fully one-half of the difficulty experienced in concentrating on this side of the Atlantic is to be found in the too complicated machinery and the attempt of too close work. *Quality* of work rather than *quantity* has been the aim of nearly all our inventors thus far in concentrating. My idea is that it is more economical to concentrate one ton *quickly* for 50 cents and lose a dollar's worth of ore than it is to be longer about it at a cost of a dollar per ton and lose only 50 cents worth of ore. In Cornwall they set up a few rough jigs out doors with only a rough shed over them (and sometimes none at all) with a few buddles for the slimes—all made on the ground, and concentrate their ores for 25 or 30 cents per ton, without much of any loss in the tailings. Here we must have a building elaborately constructed, machinery fine enough for the drawing room and a three thousand dollar man to oversee it. Yet after all, somehow it don't seem to work so well as the Cornishman's rough plant.

SPECIFIC GRAVITY.

The specific gravity of the ore determines its adaptability to easy concentration, for it may be said that all separation machinery is constructed to operate on this principle. The following table gives the specific gravity of the ores we have mentioned, also that of the gangue rocks usually found associated with the ores. It is evident that the greater the difference in specific gravity the easier concentration becomes.

Galena, specific gravity.....	7.5
Iron Pyrites " ".....	5.
Cupriferous pyrites, specific gravity.....	4.8
Zinc Blende, specific gravity.....	4.2
Chalcopryite, " ".....	4.2
Limestone, " ".....	2.8
Slate, " ".....	2.7
Porphyry, " ".....	2.7
Quartz, " ".....	2.6
Granite, " ".....	2.6

(CONTINUED IN OUR NEXT.)

—The sixty degrees of space between Newfoundland and Oregon is to be divided into four equal parts by the American Meteorological Society, who propose to establish a separate standard time for each. The difference in time between each division and the adjoining one would be exactly an hour. The same society proposes that the continent be laid out in four parallel strips, running north and south, each fifteen degrees wide, in each of which the standard time would be based on its own meridian.

—The hotel clerk is a young man who was originally created to fill an Emperor's throne or adorn a Dukedom; but when he grew up, there being fewer thrones and domes than there were Emperors and Dukes, he was temporarily forced to take a position behind a hotel register. His chief characteristics are dignity of bearing, radiant gorgeousness of apparel, haughtiness of manner, and jewelry. His principal duties consist in hammering on the call bell, in handing guests the wrong keys to their rooms, and in keeping a supply of toothpicks on the end of the desk.—[Texas Siftings.]

CORRESPONDENCE.

Railway Affairs in Canada.

THE CANADIAN PACIFIC SYNDICATE—THEIR LATEST ACQUISITION—WINTER PORTS—THE INTERNATIONAL RAILWAY.

MONTREAL, April 3, 1882.

To the Editors of the Maine Mining Journal:

SIRS:—The sale to the Canadian Pacific Railway Company, by the Provincial Government, of the western half—or the section from Montreal to Ottawa—of the Q., M., O. & O. Railway, although still before the House of Assembly, will assuredly be ratified, whatever may be done with the eastern section from this to Quebec, although the proposed sale of that section to a syndicate will most likely also carry, in view of the party strength of the Ministry.

The railway, with several branches—in all about 400 miles—was completed about three years ago by the Government, who assumed the task on account of difficulties between the original shareholders of each road and the contractors, which threatened to leave the roads in an unfinished state for years to come. By dividing the road and selling each half to separate buyers, they only place them in their original positions, as there was no connection between the two roads when they were originated, and, however willing they may have been to make a clean sale of the whole to the Canadian Pacific, that company did not wish to be burdened with the Eastern portion.

The cost of the railway was about thirteen million dollars, and although the price of sale is only about eight millions, the five millions difference may be put against the subsidy of money and land which was to be given by the Government. It is the general wish in the Province that a sale should be made of the road, as the net revenue of \$150,000 received last year does not represent anything like the interest we should receive on even eight millions of capital, and there is a feeling that unless unavoidable, no government (however pure!) should have the patronage and other incidental advantages connected with the control of 400 miles of railway. There have been several offers made by different syndicates for the road, all of them being in the neighborhood of eight millions, and the Canadian Pacific Co. will get the western half for four millions, which is probably much cheaper than it could be built for to-day.

The contract between the Dominion Government and the Canadian Pacific Railway Co. was only to build their railway from a point on the Pacific Coast to Callender, a point to the east of Lake Nipissing, where it would be met by various lines projected to connect it with all parts of the country. Of these lines only one is completed—the Canada Central—running from Callender to Ottawa, with branches to Brockville and Prescott. Although their own road will not be completed to the north of the lakes for five years, they have purchased this line, which brings their terminus as far east as Ottawa; and even if any hitch should possibly occur to prevent the completion of their purchase of the western section of the Q., M., O. & O. Railway, Montreal need not wait over the matter, as they are bound to come here by that line or build one for themselves, notwithstanding the indifference they profess about the matter. They will not be the owners of 2800 miles of rail from the Pacific to Ottawa, and then stop short within 120 miles of Atlantic tide water, and be dependent on other roads for that short distance. The chief stockholders are Montreal men, their chief offices are in this city, and they are too wide awake to the advantage to be derived from having the terminus here, to forego it under any circumstances.

We have every reason to look forward to be the shipping point for the immense quantities of grain which will be grown in the illimitable and fertile wheat fields of Manitoba and the North West, which immense country is filling up at a wonderful rate. The distance is a long one, but not further than from Dakota, from which grain finds its way to New York entirely by rail, as Buffalo and the Erie Canal are experiencing to their cost. Unless the cost of water carriage diminishes in proportion to the decrease of expenses in railway carriage, we shall have to find, in a few years, some other uses for the Great Lakes and our costly canals than for floating wheat cargoes. It will scarcely be believed outside of Canada, that Montreal, which makes some pretension to be a grain shipping port, has had up to the present moment, no further connection with the West than is afforded by our system of canals and a single track of railway. The Grand Trunk Railway was opened to Toronto in 1856, when our population was nearly 70,000, and it has taken us a quarter of a century to double that figure. The two railways now building between Toronto and Ottawa will give us two other means of communication with Chicago, and the completion of the Canadian Pacific will make such a difference in our trade as only the sanguine expect.

Of course in winter some other outlet on the Atlantic Coast must be had for the grain and cattle brought down by the latter Company. At present they would have the choice of Boston or Portland (though not by the G. T. R., with whom they are not on the best of terms) and Halifax by the roundabout Intercolonial Railway; but there will soon be another route to the sea by the Atlantic and Northwestern Railway, which it is said they favor. It is one in which they could secure the controlling power. It is made up of two existing roads from this to Magog (93 miles) from which place to Sherbrooke there is a gap of 16 miles. From there the International (70 miles) forms part of the line to Lake Megantic, and from there the missing link (a long one) is now being surveyed to the boundary and through the State of Maine, to connect with the European & North American Railway, having St. John. N. B., as the ocean port. This road will bring Bangor and Montreal into nearer relations than ever before.

R. H. G.

The Maine Mines.

BOSTON, April 2, 1882.

To the Editors of the Maine Mining Journal:

GENTLEMEN:—On behalf of many believers in Maine mines in this city we desire to congratulate you on the able articles now publishing by you from the pen of Prof. Bartlett. It is time that investors should learn that a genuinely valuable mining property is not an Aladdin's lamp, needing only a mere rub to evolve a palace or fortune indiscriminately. The misfortunes of lame men should not be alleged as a reason for ceasing all travel, and to lose heart on account of obstacles is a cowardly way of committing suicide. It is to be hoped that this reliable information from an acknowledged authority, will be the means of dissipating groundless doubts and fears.

If the sceptical Thomases could be induced to visit the New England Smelting Co's Works in East Boston, kept in full blast by treating, at a pleasing profit, hundreds of tons of ore from these despised "Maine mines," and would inspect the bullion resulting therefrom, and satisfy themselves of the advantageous relation of net returns with cost of extraction and treatment, we fancy that their faint hearts would be cheered and their misgivings allayed. It is positively proven by the business done by this Company that there are plenty of mines in Maine which can produce a sufficient quantity of valuable ore to ensure a profit far beyond any yet realized, *providing* the product of the mine, and not gambling with the stock, is made the chief consideration with the management; and *providing* that, benefiting by the warnings of repeated failures, the work of economical systematic development is energetically prosecuted by those who possess common-sense business patience, and know better than to expect a fortune in a day.

We sincerely hope you will carry on the good work of endeavoring to inspire legitimately warranted faith and confidence in what should and can be made your State's most important industry.

Respectfully,

N. Y. Z. & Co.

Clifton, Arizona—Its Mines and Prospects.

CLIFTON, A. T., March 20, 1882.

To the Editors of the Maine Mining Journal:

SIRS:—As I am in receipt of many inquiries in regard to the mineral resources of this camp, with your permission I will endeavor to answer them through your valuable journal.

Clifton has been settled about eight years. Eight years ago the Copper Mountain Mines were opened by a Mr. Hurd, from Detroit, a wealthy iron manufacturer. He died soon after, and the property has lain idle until about eighteen months ago the Detroit Mining Company commenced work. They have now two 30-ton smelters on the San Frisco River, about eight miles from their mines. Only one smelter is running at present, owing to the fact that as they have to haul their ore eight miles by team they have not been able to haul a sufficient quantity to run the two furnaces. I understand they intend building a narrow gauge railroad to their works. They have a large body of fine ore on their dumps.

The Longfellow Mines adjoin the Detroit Company's on the northeast. The Longfellow Company have been operating for the last seven years and have taken out an immense amount of bullion. They are now turning out, when they run the two smelters, some 10 tons of copper bullion per day. This is a private company. They have a narrow gauge railroad now in operation from their works at Clifton to their tramway four miles distant. The tramway is 2300 feet in length, leading from the mines to the present terminus of their railroad. They are now extending their railroad up Chase's Creek, past the Queen Mine, which has some 5000 tons of ore out, to the Coronado Mines

some five miles distant from the Longfellow. These mines all belong to the Longfellow Company.

Immediately adjoining the Longfellow Mines on the east, Mr. William Finkley has five mines that show well. On the east of Chase's Creek, and about three miles above the present end of the Longfellow railroad, are the Metcalf Mines, owned and operated by R. B. Metcalf and Messrs. Porter & Crawford. I think they have five patented mines, which show very big. They are now running a tunnel under the Metcalf mountain, intending to strike the vein some 500 or 600 feet from the surface. They are now in 500 feet and expect to strike the vein in 100 to 200 feet further. East of the Metcalf are some more mines that show up "big." Further up Chase's Creek, about two miles, are the Stevens Mines, that have been partially developed. They have 300 feet of tunnels in the several shafts and cuts, and about 250 tons of good ore are on the dump. They struck an 18-inch vein of galena that assayed 241 ozs. silver to the ton. They have done but little to develop the silver vein. East of the Stevens Mines, and on the east of Chase's Creek, are the McDermott, Morris and Guthrie Mines—five in all; they show up well, and with proper development I have no doubt would show "A-No. 1." Southeast of the last mentioned mines are the Geo. Guthrie Mines—some six mines in all—which, considering the development, show well. Near these are the Mansfield Mines and the Bentz Brothers' Mines.

Now I will commence again at Clifton and go up the San Frisco River. Some three miles above Clifton, Stony Creek comes in on the east. Up this creek, three miles from the Frisco, are the Copper King Group of Mines—five in number. One of these—the Union—is thought to be the "boss" mine of the camp. There are over 100 tons of high grade ore on the dump. They are down 25 feet on a 12-ft. vein of solid glance copper ore. The last assay was 79 per cent. copper and 11 8-10 ozs. silver to the ton. There is no doubt but this is a true fissure vein—in granite and quartzite, with a gouge on each wall. East on this lode there are some ten claims operated for gold; they are from 1500 to 2000 feet above the San Frisco River and distant from it by trail about 2 1-2 miles. North of this group are the Arbuckle & Miller and the Estrange & Mignon Mines; also the Stevens & Weisel Mines. Up the Frisco River, six miles from Clifton, are the Greenlee and Tavis & Company's Gold Mines, also the Boston Development Company's Mines which they are now developing; besides other gold claims—fifteen in all. A Boston company are laying some fifteen miles of piping, for hydraulic mining, above Clifton; they are now making their pipe here; they have some five miles already laid. In addition to the mines above mentioned, there are some thirty mines more or less developed on Gold Run, some four miles north of the Longfellow Mines.

In closing this article, I will say that the San Frisco River, as near as I can compare it, resembles the Sebois River on the East Branch of the Penobscot. I have been up some eighty miles, and I saw as fine a body of pine timber as I have ever seen in the Rocky Mountains; it will compare favorably with the timber of Wisconsin and Maine. If some young, active Maine man would take hold of it, I believe it to be the best lumbering enterprise I ever saw. Lumber here is worth from \$60 to \$75 per thousand feet.

ISAAC J. STEVENS.
Formerly of Niatou, Maine.

LODES, LEADS AND VEINS.

HARRINGTON.—The New York Stockholder says that work will be resumed on the Harrington Mine, at Carmel, next month. A shaft is down 55 feet and is to be sunk 200 feet further. A 5-stamp mill will also be erected. Developments will be pushed vigorously the coming season.

SUNBURST.—Work progresses at the Sunburst Mine and the shaft has reached a depth of 65 feet. A crosscut has been commenced north and sinking is being continued at the same time. The shaft has been nicely timbered and some very fine ore is shown. Ore channels have been found both north and south of the shaft. A recent test of Sunburst ore for copper by Prof. John Holliday, of the Boston Ore Milling and Metallurgical Works, gave 150 lbs. of pure copper to the ton of 2000 lbs., worth, at 20 cents per pound, \$30. Assays of Sunburst rock, selected as the least mineralized, made recently by Winthrop W. Fisk, State Assayer, are as follows: No. 1, gold, \$2.20; silver, .46; and copper .36; total, \$3.02. No. 2, gold, \$5.48 and silver \$1.49, total \$6.97.

COPPEROPOLIS.—Work has been carried along as usual during the week; have been less troubled with water, consequently greater progress has been made. Still raising good ore from the bottom of the shaft.—[Sullivan Bulletin, April 1.

FRANKLIN EXTENSION.—We learn that the valuable property

of this company is about being transferred to the West Franklin Mining Company, a newly organized corporation.

MILTON.—Work in the winzes and levels has been carried along with the usual good results and nothing has transpired to cause trouble or delay. At the bottom of No. 1 winze the vein still continues strong and carries very good ore. No. 2 winze continues about the same as reported last week. Have driven the south level eleven feet, notwithstanding the rock still continues hard.—[Bulletin, April 1.

Blue Hill.

STEWART.—Work is progressing as usual in both shafts, in good working ground. No. 3 shaft continues to make rather the better showing, but both are looking well and steadily improving with increased depth.

BLUE HILL.—The Blue Hill Company are pushing developments vigorously, employing a force of about fifty men. In No. 1 (vertical) shaft a winze from the first level is being sunk to connect with the westerly drift on the second level of shaft No. 2. No. 2 shaft is down 30 feet below the second level, or about 200 feet. 210 feet of drifting has been done on the first level and stoping is now in progress. A winze 55 feet deep connects the first and second levels. On the second level are about 70 feet of drifts east and west from the shaft, and the easterly drift is being driven to meet the winze from No. 1, where connection will be made in about a month. Work in the shaft continues as usual, under favorable conditions. The excellent showing of ore continues and the mine will soon be in a condition to produce largely.

YOUNG HECLA.—Supt. Ludlow reports that everything at the mine is progressing finely. The vein is opening out well and they have found better ore during the past week than ever before. The mine is making a fine showing.

TWIN LEAD.—As will be seen by notice in our advertising columns, Twin Lead has levied an assessment (No. 2) of five cents per share upon the capital stock of the company, payable April 24, and delinquent May 25.

British Provinces.

Mr. Beals of the Union Iron Works of Buffalo, and Mr. Libenburg, a New York metallurgist, with several Canadians, have been inspecting the mines in Victoria county, Ontario iron district, with a view to establishing smelting works there.

The Albert (N. B.) Maple Leaf states that the Bay of Fundy Quarrying Company have been obliged to close operations, owing to financial troubles. The company have given employment to a large number of men and it is hoped the suspension will be but temporary.

A Prince Arthur's Landing, Ont., special says: The North Shore Lake Superior mining circles anticipate a boom. The McKellar Island vein crosscut is completed. The vein is proven 60 feet wide, carrying 12 feet rich silver ore. Pie Island and Silver Islet looking well.

Mr. DeCamp reports that the property at Chezzetcook recently acquired by his firm (Adams & DeCamp) is developing unexpected richness such as to surprise themselves. He brought to town a few days since some remarkably fine specimens.—[Halifax New Era.

The recent sales of Nova Scotia gold mining properties to New Yorkers and the success which seems to be attending the operations of the foreign companies, have given quite a boom to the mining interests of that Province. The staid people of Halifax are becoming quite excited, and on the streets and at the hotels and clubs gold mines are the leading topics of conversation. Reports of fresh discoveries are coming in daily and numerous important sales are on the tapis.

Croppings.

[Compiled, Condensed and Condensed from our Exchanges.]

An exhibition of ores, metallurgical processes, etc., is announced to open at Madrid, Spain, on the 15th of May next. Besides raw materials, such as iron and zinc ore, manufactured products, from a girder to a finished machine, will be admitted. All the ore must be of native production, but steam engines from other countries may be exhibited. The whole process of coal mining will be shown in operation, and a model of a colliery, with the seams, etc., is to be constructed. The Rio Tinto Mining Company will exhibit largely, and the buildings and grounds will be illuminated by electricity. Premiums will be granted to deserving exhibits, and lectures are to be given on mining and metallurgy.

Nova Scotia Mineral Production for 1881.

From the annual report of Inspector Gilpin, of the Nova Scotia Mines Department, we extract the following valuable and interesting statistics. The coal production is given in tons of 2,240 lbs. The gypsum, building stone and barytes include only the quantities exported; the amounts used in Nova Scotia are unknown. No returns were received of plaster shipped from Baddeck.

	1881.	1880.
Gold, ounces.....	13,234	10,756
Iron ore, tons.....	228	231
Coal raised ".....	1,432,710	1,124,271
Gypsum ".....	128,528	107,131
Building stone ".....	3,549	6,988
Barytes ".....	40	40
Coke made ".....	1,125	27,871
Fireclay ".....	75	401
Grindstones, etc ".....	1,500	1,680

COAL TRADE.

The total sales for the year 1881 amount to 1,035,011 tons, against 951,659 tons in 1880, being an increase of 83,355 tons. The most noticeable points in the trade were an increase of 59,430 tons in the home sales, the returns showing 382,343 tons against 322,913 tons in 1880. The coal sent to the Province of Quebec amounted to 268,628 tons, an increase of 29,537 tons over the preceding year. The sales to New Brunswick show an increase of 25,709 tons. The sales to Newfoundland fell off 7,452 tons. A slight decrease is noticeable in the quantity exported to Prince Edward Island. The amount exported to the United States was 9,695 tons less than in 1880. The trade with the West Indies increased 9,455 tons. The sales to other countries remain unchanged.

GOLD MINING.*

The total yield of gold during the past year was 10,756 ozs. 13 dwts. 2 grs., against 13,234 ozs. in 1880. The returns from unproclaimed districts amount to 2,436 ozs. 9 dwts. 12 grs., an increase of 1,594 ozs. 4 dwts. 23 grs. over the preceding year. The continued decline in the produce of several districts which have hitherto yielded uniform returns has outweighed the increased production of several districts.

During the past year the extraction of quartz was more or less suspended in the following mines, which were sold and being prepared for work on a more extensive scale, viz: Moose River, Satemo, Gallagher and Renfrew. A large number of other mines which have hitherto contributed to the returns have been idle during part of the year, pending negotiations for their sale; among these may be mentioned Strawberry Hill, Fifteen-Mile Stream, Harrigan's Cove, Moosehead, Symonds, and several mines at Oldham and Mount Uniacke.

That the interest in the mines has not diminished is shown by the fact that in spite of the suspension of work alluded to above, the returns, not including a large amount of prospecting work done at Chezzetcook, Beaver Dam and other places, show a much larger number of days' work than in the previous year. Under these circumstances the outlook for 1882 is of a favorable character, as in it should be reaped the fruits of the large amount of preliminary work performed during the past year.

COPPER.

During the past year operations in the ores of this metal present few new points of interest. Discoveries were reported from Hopewell, Pictou county, and Spring Hill and Margarettsville, Annapolis county. At the Coxheath property, near Sydney, one shaft has been sunk 60 feet, and about 50 feet of levels driven east and west, showing yellow and purple ores in paying quantities. A second shaft has been started, 700 feet to the west, and is now 25 feet deep. A number of trenches have been dug, exposing the lode at various points. The necessary shaft, boarding and other houses have been built. Employment has been given to about 50 men. Should the present encouraging show of ore continue, it will doubtless prove a valuable mine and mark the commencement of a new mining industry in the Province.

SILVER, LEAD, ETC.

During the past fall a little more prospecting has been done in the Higgins' silver ores. At Smithfield, Colchester county, openings were made on deposits of galena said to carry remunerative percentages of silver. Other localities where silver-lead ores have been reported from are St. Ann's, Cape Breton; Arichat, East River of Pictou; Nine-Mile River, Hants county; and Salmon River, Cape Breton county. At the last named locality the ore appears filling the beds lying at the junction of the carboniferous with older strata. A large sample has just been taken out and sent to the United States for a test, but I have not learned of the results.

* Want of space prevents giving the detailed reports from the several districts in the present article and they are, therefore, reserved for a future issue.

IRON MINING.

Operations have been continued at the mines of the Steel Company of Canada, and present no few features of interest. The amount of ore mined was 39,588 tons, and 975 tons of ankerite were quarried for flux. Discoveries of specular ore were reported from Battery Hill, Pictou county, and from the West River of St. Mary's. At Boyleston, Guysboro county, Messrs. D. M. Fraser and A. Cumming have opened a series of veins of specular ore, of unusually good quality, varying in width from 2 to 4½ feet. About 255 tons have been sent to Londonderry. The mine is favorably situated for shipping, and the quality of the ore is such as should command a market in the United States. About 12 miles west of Guysboro, at Erinsville, a similar deposit, said to be 15 feet wide, has been sold to the Crane Iron Company, of Philadelphia, who are making preparations for developing it. A fine quality of hematite has been found at River Philip, but no search has yet been made for the ore in situ.

In Cape Breton, further work has been done in the Mosely red hematite at East Bay, and the bed, by my own measurements, was found to have increased in thickness to 13 feet in the eastern openings. The proprietors propose taking out a few hundred tons for a trial cargo. A deposit of red hematite was partially tested at Loch Lomond by Mr. Mosely. The analyses show the ores to be of high grade. These deposits are favorably situated for mining, and at short distances from shipping places. From their analyses they should be adapted for Bessemer use, and will ultimately furnish very valuable supplies of ore to local furnaces.

The bed of red hematite found at Smith Brook, has been prospected and found to have a width of 20 feet. A bed of red hematite 15 feet wide has been found within two miles of the Pictou coal field. Analyses have shown it to yield 44.50 per cent. of metallic iron with small amounts of sulphur and phosphorus. The quality of the ore is well adapted for smelting, and it is hoped that an effort will be made to utilize it for this purpose. As it is much nearer shipping and fuel than any deposit hitherto found in that district, good grounds appear for the success of such an enterprise.

MANGANESE.

During the past year operations have been continued at the Tenny Cape Mines by J. W. Stephens, Esq., who also opened a new mine at Cheverie, yielding a very fine quality of ore. On the North River of Truro, Messrs. McLellan and Archibald prospected for the source of the rich boulders found there. Some veins have been found, but regular work has not yet been commenced. About 15 tons of very good ore were obtained, part of which has been shipped. Prospecting was also done at Pembroke.

The Hon. E. T. Mosely has proved that Cape Breton is to be added to the list of manganese producing districts. During the past year he has opened a mine on the farm of Murdoch McCuish, and another on the property of Norman Morrison, Glenmore, Loch Lomond. About seventy tons have been shipped, principally to the United States. The ore is described as suitable for glass, chlorine, and ferro-manganese. All the samples analyzed are returned as very free from iron.

During the past year the prices of manganese have risen very much, owing, I believe, to the exhaustion of the continental deposits yielding the high grades of ore. The importance of this increase in value may be learned from the fact that first class ore from Nova Scotia has been sold in Boston for \$120 per ton. In this Province it is found associated with limestones of lower carboniferous age, and there can be little doubt that it exists in large quantities, as specimens are found at every point where these measures occur. Should the present demand continue there is no doubt that in a few years it will form an important part in our list of mineral exports.

EASTERN INDUSTRIES.

—A cheese factory will be built at Monmouth Centre this spring.

—The Montreal Cotton Company are enlarging their mill at a cost of \$300,000.

—Messrs. Henry Poor & Son, of Boston, employ about 150 men at their tanneries in Winn, Medway and Lowell, this State.

—Daniel Gerow, of Hodgdon, Aroostook county, will tap 3000 trees this season, and expects to make 1400 pounds of maple sugar.

—Messrs. Packard & Haggett, a new ship building firm at Bath, are about to commence work on two schooners, one of 700 tons and the other 450.

—All the slate quarries at Fairhaven and Poultney, Vermont,

are working on full time, and the shipments average five carloads a day from each place.

—The total amount of foreign exports from the port of Portland for the week ending on Saturday last was \$272,411.63, including 383,331 feet of lumber.

—Preparations are being made at the Vassalboro Woolen Mills to put in more wool dyeing vats, as the present capacity does not meet the demand for indigo goods.

—The Portland Kerosene Works employ about thirty men at present. When running full they employ about fifty men, and produce yearly over a million gallons of refined oil.

—Parties living along the banks of the Eastern River, near East Pittston, have captured and shipped to Boston over \$500 worth of eels this spring, and the work still continues.

—H. B. Bartlett's tripe factory, Lewiston, supplies the eastern part of the State, largely. Mr. Bartlett makes about 25 tons of tripe per annum, and employs three to five men.

—David Scott & Son, Berwick, manufacturers of reeds, have a large order to be filled for a new mill at Charleston, S. C. They also furnish the reeds for the Lockwood Company's mill at Waterville.

—C. J. Hall, of Belfast, has commenced work at his red granite quarry, Mount Desert. He has a contract to furnish granite for two bridges in Boston—Park street bridge and a railroad bridge.

—Mallett & Co., Augusta, turn out 200 screw-drivers daily, employing eighteen men. As fast as machinery arrives they will enlarge until they have fifty or sixty men at work, and produce 1000 screw-drivers a day.

—The six breweries in New Hampshire turn out about 231,000 barrels of ale and lager yearly; Frank Jones' brewery, at Portsmouth, turns out about 128,000 barrels. The rum distillery produces 1000 barrels annually.

—From statistics taken from Chase's revised map it will be seen that the total amount of ice secured in Maine the past winter was 1,403,300 tons. The season was so unfavorable that a full crop could not be harvested.

—W. O. & C. Barney, Searsport, have large orders on hand for a variety of ship material to be sent to the Pacific coast. They have lately put in a machine known as a "plug cutter," used in making plugs for ship work.

—Harry Rideout, Calais, is doing quite a business in the manufacture of patent churns, horse and hand sleds. His machinery is run by steam and he keeps four or five men at work. He shipped off 500 churns in one batch last fall.

—The business outlook at Biddeford is favorable and the various manufacturing interests are prosperous. The number of cotton mill operatives is large, the machine shops are driven with work, and the shoe shops are generally running full gangs.

—Mr. Judson Briggs is about to put a new gang into his saw-mill at Brownville, and will saw a large amount of lumber the coming season. His product will become an important item of freight for the new Bangor & Katahdin Iron Works Railway.

—The buildings, together with a quantity of other articles including hoisting tubs, tackles, etc., belonging to the granite quarry of Messrs. Saunders & Fulton, at East Blue Hill, were destroyed by an incendiary fire on Friday, March 24. Loss about \$500. No clue to the perpetrators.

—Browne, Smith & Co., a large wholesale English importing house in Moscow, Russia, having read an item concerning the Blodgett Glove Company of Plymouth, N. H., sending buck gloves there, have written the company asking the exclusive agency of their goods in that locality.

—The Auburn shoe factories made another big tally last week, having shipped 2336 cases, one of the largest totals on record. The shipment of Messrs. A. Cushman & Co.—1269 cases—is the largest week's work ever done by that firm, and their shipments on Tuesday were the largest ever made by any Auburn firm in one day.

—It is said that Lynn parties have recently visited Cornish for the purpose of locating a shoe manufactory at that place. They wish a building erected 149x10 feet and four stories high. Such a building will accommodate some 500 operatives. The leading citizens of the village are much interested in the scheme, and the town proposes to hold a meeting to see if the town will exempt the property from taxation for a term of years.

SURRY INDUSTRIES.—Osgood & Marden will saw at their

mill this season about 150,000 staves, 100,000 shingles, 50,000 long lumber and 50,000 headings.—E. N. Osgood estimates that from August last to June 1st his shipments of poles and hoops will amount to about 500,000. Markets, Rockland and Boston.—G. W. Allen estimates his lumber product the present season at about: Long lumber, 300,000; clapboards, 50,000; staves 50,000.

—The Collins Granite Company, East Blue Hill, have received nearly all their machinery for the new polishing mill, now in course of erection, and the mill is expected to start up in about two weeks. They are running a large force of quarrymen and stonecutters, and are putting on cutters as fast as they come. About thirty men are wanted yet. Schooner City of Ellsworth sailed on the 25th inst., loaded with cut stone for the New York Produce Exchange and the Mills building.

—The Ellsworth Foundry and Machine Co. now have five buildings in first class order and well equipped for an active season's work. The Foundry building is furnished with a twenty-eight inch cupola, capable of melting from one and a half to two tons of iron per hour, and two furnaces for melting brass or copper. The company will soon put in a large iron planer of the most approved pattern and any orders sent to them from mine or mill owners will receive prompt attention.

—The Maine Manufacturing Company have recently enlarged their works at Fairfield, and are now doing a large amount of work, with orders considerably ahead. They recently received a large order for settees from Europe, and have formerly received several small orders from the same source. They have rented a building in Somerville, Mass., where their furniture and other articles manufactured in this State will be set up and painted. The building is four stories high, each floor containing 1800 square feet, and from twelve to sixteen men will be employed there.

—Messrs. B. Plummer & Co., at their new steam mill at Passadumkeag, do a lumbering business of about \$50,000 each season. The firm employ about fifty men in the summer and thirty during the winter in getting out lumber for boards, timber, shingles, and for box and barrel making. They propose to build an addition to their mill the present season which will increase their facilities for manufacturing other small articles. They are now filling a large order for onion crates from Bermuda. The E. & N. A. R. Company have laid a track from the main line to the mill yard, where the lumber, etc., is laden directly upon cars for shipment.

—The Arctic Ice Company, of this city, will erect, during the coming season, the largest ice house on the Penobscot River. It will be on the lot south of and immediately adjoining the present house, and can be filled from the same endless chain elevator. The new structure will be built in the same manner, and will be between 250 and 300 feet long, with from 25,000 to 30,000 tons capacity. When this is done the company will have a house capacity of 50,000 tons besides their stacks, and will own altogether one of the finest ice privileges in Maine. They have already sold 22,000 tons of their ice at \$1.50 a ton, and will begin shipping immediately upon the opening of navigation. The ice will go to southern ports.

PENOBSCOT SAW MILLS.—James Walker & Co. have made the usual repairs to the Basin Mills, and are ready to start up with a good supply of logs as soon as the river opens to this city.—Gilman, Webster & Quinby are all ready to start their mill at Stillwater as soon as the season opens. They have a good supply of logs on hand.—C. G. Sterns & Co. have about completed the work of preparing their steam saw mill below this city for the summer's work, and will start up upon the opening of navigation.—The Dirigo Mills, in Brewer, are in good order, and will be started up as usual, upon the departure of the ice, by Gould & Hastings, with Henry Brawn in charge.—The others are generally ready for work, and soon the pleasant hum of the saws will be heard again.—[Commercial.]

Railway and Steamship Notes.

....A meeting of railroad men was held in Portland on Tuesday to discuss matters relating to the New England and Provincial All Rail Line.

....The proprietors of the Boston Herald own a railroad in Florida 84 miles long and also a controlling interest in the Marietta and North Georgia Railroad.

....The Grand Southern Railway bill, granting terminal facilities and other rights asked, has been finally passed by the New Brunswick Legislative Council.

....There was not a single passenger killed on the Atchison, Topeka and Santa Fe road during 1881. This is a record of

which probably no other line of equal length in the world can boast.

....The Rumford Falls & Buckfield R. R. propose building a new and substantial bridge near the station at East Sumner. The company also intend placing several new freight cars on the line this season.

....The largest railroad tax assessed by the Governor and Council of Maine is that of the Maine Central, \$28,156. The Eastern is taxed \$18,652, the Boston & Maine \$18,626, and the Grand Trunk, \$12,095. The total tax on railroads is \$87,000.

....The Boston & Maine Railroad Company have a new locomotive in their shops at Lawrence nearly ready to come on the road, being the second one made during the year. Three new parlor cars and four new passenger cars are to be ready July 1st.

....The revenue cutter Dallas, Captain Glover, makes a good report for the past season. She has boarded and examined 410 vessels and steamed 5,651 miles. She has rescued or rendered timely assistance to nine disabled vessels. The seven life saving stations have been inspected and furnished with supplies.

....The steamer Sea Flower has changed hands again and has been purchased by Capt. Knowlton, of Portland. She has been running from Portland to Harpswell, but will now undergo extensive repairs and receive a new engine and will take the place of the Tourist on the Island route in Casco Bay. The Sea Flower will be well remembered in this vicinity.

....The Province of New Brunswick now has 984 miles of railway in operation, said to be a greater mileage, in proportion to population, than that of any other province, state or country. New Brunswick has more miles of road than Portugal, Denmark or Norway, and nearly as many as Holland, and more than either New Hampshire, Connecticut or Vermont.

....The Advocate states that some misapprehension exists respecting the recent vote of the town of Anson in regard to the railroad bonds. Instead of raising money to pay the interest, a sum was raised to purchase the bonds at the discretion of the selectmen. A strong feeling exists among the taxpayers to raise the money at the current low rate of interest and buy up all the six per cent. bonds, if concessions can be obtained from the bondholders.

....A petition to Congress for the passage of a bill empowering the Maine Shore Line Railroad Company to construct a bridge across the St. Croix River, between Calais and St. Stephen, has been generally signed this week by our business men. Only three citizens declined to sign the petition, which has been forwarded to Senator Hale. The location of the bridge will be determined in the charter which the Company will ask of the next Legislature of this State.—[Calais Times.

....The following statistics are gleaned from returns showing the average working expenses and the earnings per mile of the Intercolonial Railway from 1872 to 1881. The working expenses per mile varied from a maximum of \$3,514 in 1873-74 to \$1,944 in 1879-80. The earnings per mile were largest in 1873-74, when they were \$2,635 per mile, and were least in 1876-77, when they amounted to \$1,517 per mile. In 1880-81 the working expenses were \$2,095 per mile and the earnings a few cents more.

....The Clements Steamship Company, recently organized for the purpose of running a line of steamers between Boston, Portland and Yarmouth, N. S., includes among its incorporators Messrs. R. B. Humphrey, of St. John; E. F. Clements, A. J. T. Clements and Samuel Killan, of Yarmouth; H. J. Libby, J. B. Coyle, T. C. Hersey and Daniel E. Emery, of Portland. The capital stock of the company is \$200,000 (with power to increase to \$500,000), divided into 2,000 shares of \$100 each.

....The Bangor and Bar Harbor Steamboat Line are now building in Brewer two steamers, the Cimbria and Florence. The Cimbria is 130 feet long, 28 feet wide and will be about 200 tons measurement, being about a third larger than the steamer City of Bangor. On the lower deck aft, will be a cabin and dining saloon 30 feet by 16 feet, and also an after cabin and toilette room for ladies. A large state room leads from the cabin and on the opposite side will be another state room. On this deck forward will be a large and commodious freight room. The cabin will be finished in cherry and have upholstered seats on the sides. Reaching the upper deck, the upper cabin or saloon will be 50 feet long by about 16 feet wide. It will be finished in pine and painted different colors and with upholstered seats on the sides. There will be six large state rooms, three on each side, leading out from this saloon. The steamer will have a compound engine of 200 h.-p., built by the Lockwood Manufacturing Company of Boston, and two steel Redfield boilers, made by McLuttee & Dillon, at Pondout, N. Y. The steamer

will be fitted up throughout in a superior manner and in all respects will be made first class. Work is being pushed with great rapidity and it is expected she will be in the water by May 1st. She has been named the Cimbria after the German steamer of that name which for several months lay at anchor at South West Harbor with several hundred Russian soldiers on board. Four weeks ago the keel was laid for another craft. She is to be a small steamer and will be schooner rigged. The dimensions are 70 ft. long by 16 feet wide and she will have two cabins about 14 feet by 10 feet in size with upholstered seats. She will be a propeller and will have a single engine of 30 horsepower and the machinery will be of the same size as that of the May Field. The steamer is intended as a small passenger boat for excursions and for private parties and will be able to accommodate from 75 to 100 persons. The craft will be completed in season to be launched by May 1st. It has been decided to name her "Florence," after the little daughter of Capt. S. H. Barbour.

Hotels and Summer Resorts.

The Turner House, Guilford, is to be enlarged the present season.

Isaac M. Bragg, Esq., will build two summer cottages at Hancock Neck this season.

Mr. W. H. Robertson has discontinued his management of the Marston House, Lewiston.

The Sea View House, at Long Sands, York, is being improved by the addition of a French roof, by the proprietor, Mr. H. M. Perkins.

The popular Fort Point Hotel, after being thoroughly renovated will be opened about the middle of June under the management of Mr. Russell.

Mrs. Flint, proprietress of the Belmont House, Old Orchard Beach, will build at once a new hotel on the site of the Lawrence House, recently burned.

The lease and furniture of the Codman House, Oldtown, have been purchased by Mr. James Robinson, of Oldtown, and the hotel is now open to the public.

Mr. Wm. Pingree has taken possession of the Fryeburg House, Fryeburg, which has just been painted and thoroughly renovated within and without. He will keep a first class house.

The Goodwin House, York Harbor, has been enlarged sufficiently to accommodate about seventy-five boarders. The improvements will be completed in season for the summer business.

The Yates House, Biddeford Pool, for many years kept by Fred Yates, and one of the most popular summer resorts on the coast, is already receiving applications for rooms for the entire season.

Mr. Gilbert Longfellow has sold his island near Jonesport to Geo. A. Gardner, Esq., of Boston. It is understood the price paid was about \$22,000. The island will probably become a family summer resort.

Miss J. A. Pillsbury, of the Howard House, Old Orchard, has nearly completed a new hotel known as the Revere House, situated near Fern Park, a few rods from the Camp Ground station on the Old Orchard Junction R. R.

A fortune of from fifty to a hundred thousand dollars can be made by a man or men who will purchase Beauchamp Point, Rockport, and sell it out for hotel and cottage lots. There isn't another place between Heaven and the Gulf of Mexico that can begin to compare with this place for a summer resort.—[Camden Herald.

The large and grand additions and improvements to the Ocean Bluff Hotel, Kennebunkport, are being rapidly pushed to completion. The Ocean Bluff is now a mammoth hotel, with appointments of the first-class in every particular, and its eligible location is unsurpassed for fine and extensive ocean and inland scenery.

The Oxford House, Fryeburg, kept by Messrs. A. O. & C. H. Pike, is one of the best village hotels in New England, and offers special inducements to seekers after a quiet spot in the midst of invigorating air and charming scenery, in which to spend the summer months. The proprietors are making preparations for a large summer business.

At a meeting of the citizens of Monson, held on Saturday, March 25th, it was unanimously voted to take immediate measures to induce capitalists to erect a large and commodious hotel in that village the ensuing summer. J. P. Sprague, Esq., was

selected as an agent to visit capitalists in Lowell and other places in Massachusetts in relation to the matter and he started Tuesday for that purpose.

During last fall, Mr. F. O. Beal, the enterprising landlord of the Bangor House, purchased that popular hostelry and shortly afterwards purchased the Penobscot Exchange also. Under the terms of the sale, the Exchange would not pass into the hands of Mr. Beal until the first week of April. During the winter a large amount of repairing has been done at the Bangor House and a great number of improvements have been inaugurated. To-day (Friday), Mr. Beal assumes charge of the Exchange and will at once do considerable repairing and painting and put the house in perfect order before the summer travel begins. Col. Andrew Smith, whose genial face and agreeable manners have been associated with this popular hotel for so many years, will still remain as manager to welcome his numerous friends, and he will be assisted by Mr. Allen, of Orono, and Mr. John Curtis, now steward at the Bangor House, as clerks. Mr. M. J. Roach assumes the duties of manager of the Bangor House and Mr. A. P. Randall will be chief clerk and Mr. W. B. Lucas night clerk. Mr. Prentiss Preble will act as accountant for both houses, and in fact for Mr. Beal's entire business. Mr. Beal has about settled the sale of his livery stable and when this is disposed of he will only have horses for his hacking and the stage line to Bar Harbor, the latter being in charge of Mr. Brackett, a veteran in the business. Under the new order of things the free hack system is to be abolished and the regular charges for hacking will be resumed. Mr. Beal will give his whole attention to the two houses and with the hearty co-operation of his able assistants will make them the best in the State. He is a gentleman of marked business ability and untiring energy and is bound to make a success of his new undertaking.

Nuggets.

*Messrs. Prescott, Hersey, Hastings & Co., mining and stock brokers on Devonshire St., Boston, have dissolved partnership and will close up their business.

*During the recent excavations at the quarry at Otter Creek, Mt. Desert, some interesting remains of the aborigines were brought to light. They were presented to the Maine Historical Society.

*Col. E. C. Farrington, of Fryeburg, and others interested in sporting, intend to grow a quantity of Canadian wild rice, of which ducks are very fond. It is easily raised from seed, and the birds are attracted in great numbers by it.

*Stockbridge's Musical Journal for April is received. It contains, besides the usual amount of monthly news and gossip, ten pages of vocal and instrumental music. Published at sixty cents per year by Ira C. Stockbridge, Portland, Maine.

*The population of Winnipeg, the most northern city on the continent, has increased from 215 in 1870 to 14,750 in 1881. Its churches, which represent all denominations, are full every Sabbath. Winnipeg is the banner church-going city in the land.

*At the post office in this city, which is one of the International Money Order Exchange offices, 547 money orders from the United States to the British Provinces were certified in the ten days ending March 30, covering an aggregate amount of \$12,318.

*A lodge of the Amalgamated Association of Iron and Steel Workers of the United States, known as Star of the East No. 1, has been organized at Ligonilla village, one of the suburbs of Portland. The lodge has a membership of 125 individuals and meets every other Saturday.

*The magnificent Opera House erected in Bangor at a cost of about \$50,000 will be opened to the public on Tuesday evening next with the drama "Rosendale," with a strong amateur caste. It is a thoroughly appointed theatre in every respect and in point of interior decoration is one of the finest in the country.

*We have received the first number of "The Daily Sentinel," published at Prince Arthur's Landing on the North Shore of Lake Superior. It is a spunky little sheet and will no doubt meet with the success its enterprise merits. From its general appearance we take it that our friend Everitt, of the North Shore Miner, is the engineer in charge.

*We have received F. H. Moses' Illustrated Annual and Floral Guide for 1882, a very neat and instructive pamphlet. Mr. Moses' establishment at Bucksport is one of the most flourishing institutions in eastern Maine, and his catalogue embraces a large number of new and choice varieties of flowering and ornamental plants. All should send for it.

*Patents issued to Maine inventors under date of March 28,

1882, reported for us by Wm. Franklin Seavey, Solicitor of Patents, Bangor: Willard Linscott, West Auburn, shoe; Wm. K. Webb, North Bridgeton, device for connecting boots or shoes; Ephraim Witham, Carrington, calk. Trade marks: Canned corn, J. P. Baxter, Portland, the word "Yarmouth"; Canned provisions, Portland Packing Co., Portland, the figure of a star. Whole number of patents issued for the week, 357.

New Incorporations.

[TO DATE OF APRIL 5, 1882.]

COPPER KING MINING COMPANY.—Bangor, March 11—Capital stock \$500,000—Purposes, mining and all business incident thereto—Location of mines—Clifton, Graham county, Arizona—President, Hiram Preble, Bangor; Treasurer, J. Henry Smith, Bangor.

ARNOUX ELECTRIC LIGHT CO.—Portland, March 11—Capital, \$200,000; par value of shares, \$100; \$2,500 paid in—Purposes, to buy, sell, manufacture and operate electric machines, etc., etc.—President, Davis W. Coolidge; Treasurer, Franklin J. Rollins; Directors, D. W. Coolidge, F. J. Rollins, Charles R. Miliken, Elias Thomas and William R. Wood.

NEW HAMPSHIRE CRYSTAL MICA CO.—Bangor, March 11—Capital, \$300,000—Purposes, to purchase all the property of the Crystal Mica Mining Co. in Grafton, N. H., and carry on the business of mining on said property, etc.; also to carry on similar business in Penobscot county, Maine—President, George P. Walker, Lowell, Mass.; Treasurer, Henry B. Beard, Minneapolis, Minn.

GLENN MINING CO.—Saco, March 17—Capital, \$100,000—Purposes, mining, smelting, etc., etc.—President, Charles E. Folsom, Cambridge, Mass.; Treasurer, S. P. Wardwell, Denver, Col.

ROBBINSON ST. CROIX WHARF CO.—Robbinston, March 27—Capital, \$1,000; nothing paid in—Purposes, erecting, maintaining and operating one or more wharves on the St. Croix River in the town of Robbinston—President, James W. Cox, Robbinston; Treasurer, Cyrus Balkam, Robbinston.

PARIS GRANGE BUILDING ASSOCIATION.—Paris, Oxford county, March 27—Capital, \$1,100; \$750 paid in—Purposes, to purchase a building to contain grange, hall, store, rooms, etc.—President, S. R. Parsons, Paris; Treasurer, Leonard Whitman, Paris.

CONSOLIDATED GOLDEN DEVELOPMENT CO.—Portland, Mar. 30—Capital stock \$400,000, par value of shares \$2—Nothing paid in—Purposes, mining and all business incident thereto—President, Charles D. Jenkins, Boston; Treasurer, George F. Field, Boston; Directors, C. D. Jenkins, G. F. Field, John G. Phillips, E. A. Thissel and Stephen C. Perry.

BELFAST BLOCK CO.—Belfast, Mar. 28—Capital \$5,000; \$1,725 paid in—Purposes, to manufacture and sell tackle, blocks, ships' pumps, wheels, etc.—President, John G. Brooks, Belfast; Treasurer, C. J. Hall, Belfast.

CHROLITHON COLLAR AND CUFF CO.—Portland, Mar. 29—Capital \$160,000; \$300 paid in—Purposes, manufacturing, buying and selling articles made in whole or in part of "pyroxyline," and especially to own and deal in licenses for the U. S. under contract with the Chrolithon Manufacturing Co., of Newburyport, Mass.—President, Allen G. Lowell, Boston; Treasurer, Edward W. Champney, Boston.

ELLSWORTH FOUNDRY AND MACHINE CO.—Ellsworth, April 1—Capital, \$25,000—Purposes, manufacture, purchase and sale of iron and wood, and all other merchandise connected therewith—President, Francis Worcester, Ellsworth; Treasurer, Wm. O. McDonald, Ellsworth.

STANDARD SPIKE MANUFACTURING CO.—Portland, April 1—Capital, \$25,000; nothing paid in—Purposes, manufacturing and dealing in improved spikes, to acquire patents for improved locomotive smoke stacks and chimneys, etc., etc.—President and Treasurer, Gorham Grey, Boston.

PORTLAND COACH CO.—Portland, April 4—Capital, \$10,000; \$30,000 paid in—Purposes, the manufacture and sale of articles for the transportation of people—President, Geo. B. Blodgett, Rowley, Mass.; Treasurer, Ruel Small, Deering, Me.

HALL RUBBER MILLS.—Portland, April 5—Capital \$50,000; \$50 paid in—Purposes, to manufacture and sell clothing and other articles made wholly or in part of rubber—President, Jos. B. Lincoln, Cohasset, Mass.; Treasurer, Frank E. Hall, Bridgewater, Mass.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 5, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Amalgamated	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Atlantic L. S.	14 1/2	15 1/2	14 1/2	15 1/2	14 1/2	15 1/2	14 1/2	15 1/2	14 1/2	15 1/2	14 1/2	15 1/2
Atlas	11	12	11	12	11	12	11	12	11	12	11	12
Blue Hill Copper	11	12	11	12	11	12	11	12	11	12	11	12
Brunswick	24 1/2	25 1/2	24 1/2	25 1/2	24 1/2	25 1/2	24 1/2	25 1/2	24 1/2	25 1/2	24 1/2	25 1/2
Calumet & Hecla	59c	60c	59c	60c	59c	60c	59c	60c	59c	60c	59c	60c
Catalpa	59c	60c	59c	60c	59c	60c	59c	60c	59c	60c	59c	60c
Central	3 1/2	4	3 1/2	4	3 1/2	4	3 1/2	4	3 1/2	4	3 1/2	4
Copper Falls	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Contentment	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Douglass	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Dana	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Duncan Silver	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Empire	42c	43c	42c	43c	42c	43c	42c	43c	42c	43c	42c	43c
Franklin	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Harshaw	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Huron	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Hanover	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
National	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Osceola	34	35	34	35	34	35	34	35	34	35	34	35
Pewabic	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Phoenix	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Pontiac	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Quincy	45	46	45	46	45	46	45	46	45	46	45	46
Ridge	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Silver Islet	20	21	20	21	20	21	20	21	20	21	20	21
Star	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2
Sullivan	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2	10 1/2	11 1/2

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Arrive Bangor,	6.42	6.05
Leave Bangor,	7.35	7.15
Arrive Bucksport,	8.45	8.25

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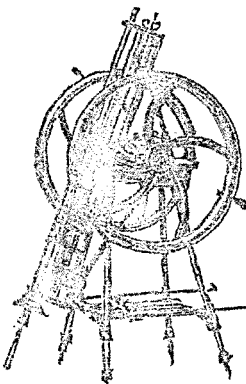
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Blue Hill Copper Mining & Smelting Co.

OFFICE, Rooms 14 and 15 Simmons Building, BOSTON, MASS.

MINES, BLUE HILL, ME.

Capital, \$500,000. 100,000 Shares, Par Value, \$5.00.

S. C. BLANCHARD, President.

WM. M. JEWETT, Treasurer.

JOHN M. MERRILL, Secretary.

J. H. MOYLE, Superintendent.

Cherryfield Silver Mining Co.

OFFICE, CHERRYFIELD, ME. MINES, CHERRYFIELD, ME.

Capital \$500,000. 100,000 Shares. Par Value \$5.00

Unassessable.

SAMUEL N. CAMPBELL, President.

WM. FREEMAN, Treasurer.

WM. FREEMAN, Secretary and General Manager.

Directors—JAMES A. MILLIKEN, SAMUEL N. CAMPBELL and WM. FREEMAN, of Cherryfield; THOMAS DALBY and F. H. WILLIAMS, of Boston. WM. A. LEONARD, Supt.

Copperopolis Mining Company.

OFFICE, 4 SEARS' BUILDING, BOSTON, MASS.

Capital, \$500,000. Par Value of Shares, \$2.50.

Unassessable.

GEO. E. HARRINGTON, President.

S. L. SYMONDS, Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—GEO. E. HARRINGTON, GEO. WEST, FRANCIS TUCKERMAN of Salem, Mass.; P. MULLAN, L. W. HODGKINS of Ellsworth, Me. JOHN SHOENBAR, Superintendent.

Deer Isle Silver Mining Co.

OFFICE, PORTLAND, ME. MINES, DEER ISLE, ME.

Capital, \$500,000. 100,000 Shares. Treasury Fund, 52,000 Shares.

A. H. HARRIS, President.

GEO. F. GOULD, Treasurer.

GEORGE F. GOULD, Secretary.

DIRECTORS—A. H. Harris, of New York; Nathan Cleaves and Frank C. Crocker, of Portland; C. W. Bryant, of Deer Isle and George D. Greeley, of Boston.

S. Z. DICKSON, Superintendent.

Gouldsboro Silver Mining Co.

OFFICE, ELLSWORTH, ME. MINES, GOULDSBORO, ME.

Capital, \$500,000. 100,000 Shares. Par Value, \$5.00.

Judge A. P. WISWELL, President.

C. C. BURRILL, Treasurer.

J. B. REDMAN, Sec'y. FRANCIS WORCESTER, Manager.

DIRECTORS—A. P. Wiswell, C. C. Burrill and Eugene Hale, all of Ellsworth.

W. I. VALENTINE, Superintendent.

Milton Mining Company.

OFFICE, 4 SEARS BUILDING, BOSTON, MASS.

Mines, West Sullivan, Me.

Capital, \$1,000,000. 200,000 Shares. Par Value, \$5.00

WM. D. LEWIS, Pres't.

GEO. E. HARRINGTON, Treas.

HORACE T. STARR, Secretary.

Directors—WM. D. LEWIS, GEO. E. HARRINGTON, C. F. MACKENZIE, WM. J. MANN, GEO. WEST, HENRY R. GARDNER and GEO. F. ROPES. JOHN SHOENBAR, Superintendent.

Mammoth Copper Mining Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

250,000 Shares.

Par Value, \$2.00.

EUGENE M. HERSEY, President.

JOHN R. MASON, Secretary.

G. W. PICKERING, Treasurer and Transfer Agent.

W. D. LEWIS, Assistant-Treasurer and Secretary.

DIRECTORS—E. M. HERSEY, T. N. EGERY and SAMUEL STERNS, of Bangor; W. D. LEWIS, of Boston and CHAS. DUFF, of Blue Hill.

CHARLES DUFF, Superintendent.

Pine Tree Silver Mining Co.

OFFICE: 24 BROAD STREET, NEW YORK; MINES, SULLIVAN, MAINE

Capital, \$500,000.

Par Value of Shares \$5.00.

Unassessable.

GEN. JOHN M. CORSE, President.

ROBERT L. CUTTING, JR., Treasurer.

W. OSCAR ARNOLD, Secretary.

Directors—Col. CHAS. H. LEWIS, GEN. JOHN M. CORSE and ROBERT L. CUTTING, JR., of New York.

Stewart Copper Mining Com'y.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

100,000 Shares.

Par Value, \$5.00.

HON. FREDERICK M. LAUGHTON, President.

C. F. BRAGG, Treasurer.

C. F. BRAGG, Secretary.

DIRECTORS—Frederick M. Laughton, F. W. Hill, C. F. Bragg and Thomas White, of Bangor; S. N. Stockwell and G. B. Putnam, of Boston.

DANIEL DUNN, Superintendent.

Sullivan Mining Company.

OFFICE, 17 Tremont Bank Building, BOSTON, MASS.

MINES, SULLIVAN, ME.

Capital, \$500,000.

100,000 Shares.

Par value, \$5.00.

GEORGE B. BROWN, President.

F. R. NOURSE, Treasurer.

CHARLES L. PERRIN, Secretary.

DIRECTORS—Geo. B. Brown, B. S. Grant, C. F. Farrington, J. G. Russell, Dudley R. Child, E. A. Birchard and Frederic R. Nourse.

Twin-Lead Mining and Smelting Co.

OFFICE, BANGOR, ME. MINES, BLUE HILL, ME.

Capital, \$500,000.

125,000 Shares.

Par Value, \$4.00.

EUGENE M. HERSEY, President.

SAMUEL STERNS, Vice President.

JOHN R. MASON, Secretary and Treasurer.

DIRECTORS—E. M. Hersey, Samuel Sterns, John S. Jenness, Jacob Stern, F. H. Williams and Thomas N. Egery, of Bangor; Charles Duff, of Blue Hill. CHARLES DUFF, Superintendent.

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MAINE MINING JOURNAL, Bangor, Me.

SUNBURST Copper & Silver Mining Co.

Office at Ellsworth, Me.

Mines at East Surry, Me.

Capital \$500,000. 500,000 shares. Par Value \$1.00, unassessable. 368,590 in Treasury.

President, Jas. W. Davis; Treasurer and Secretary, M. Donelan.

Directors, Jas. W. Davis, Ellsworth, Me.; M. Donelan, East Surry, Me.; Dr. L. W. Hodgkins, Ellsworth, Me.; Major General Conyers Tower, England; Hon. Jas. F. Davis, Mayor of Ellsworth; A. W. Clark, H. B. Mason, Ellsworth, Me.

M. DONELAN, Supt.

YOUNG HECLA Mining and Smelting COMPANY.

Office at Bangor, Me. Mines at Blue Hill, Me.

Capital, \$500,000.

100,000 Shares. Par Value, \$5.00 each. Treasury Fund, 20,000 Shares.

President, John S. Jenness, Bangor, Me.; Vice President, Charles Hamlin, Bangor; Treasurer, C. P. Wiggin, Bangor; Secretary, C. P. Wiggin, Bangor.

Directors—John S. Jenness, Charles Hamlin, Wm. D. Swazey, F. M. Laughton, Ruel Smith, Horace P. Tobey and Frank H. Williams.

F. H. WILLIAMS & CO., Financial Agents.

BLUE HILL CENTRAL Mining and Smelting COMPANY.

OFFICE.....BANGOR, ME.
MINES AT.....BLUE HILL, ME.

CAPITAL, \$500,000.

100,000 Shares. Par Value, \$5.00. Treasury Fund, 30,000 Shares.

Hon. Wm. C. Marshall, of Belfast, President; H. J. Preble, Esq., Vice-President; S. P. Johnson, Secretary and Treasurer; Directors—Hon. Wm. C. Marshall, H. J. Preble, Esq., Samuel R. Prentiss, J. S. Jenness and M. Preble.

Silver Hill Mining Company.

Office, 11 CENTRAL STREET,

Room 4, - - - Boston.

Mines at Garland, Me.

Capital, \$500,000. 200,000 Shares. Par value, \$2.50. 25,000 Shares in Treasury.

President, John F. Hudson, Boston; Treasurer Chas. E. Parent, Boston; Clerk, Geo. A. Mudge Portsmouth, N. H.

Directors—John F. Hudson, Geo. A. Goodyear and Chas. E. Parent, of Boston; Geo. F. Hodgdon, of Portsmouth, N. H.

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BANGOR.

APPLETON MINING AND SMELTING CO.,
Appleton, Me. Incorporated, Feb. 1880.
Capital, \$500,000; Shares, \$5 each; Treasury Fund 36,000 shares.

President and Treasurer, John Bird, Rockland; Secretary, E. M. Wood, Camden; Directors, John Bird, Geo. H. Cleveland, Moses Webster, S. C. Shepherd, D. H. Bisbee, George F. Woods, A. D. Bird.
CHARLES K. MILLER, Supt., Camden.

EXETER SILVER MINING COMPANY,
Exeter, Me.

Capital, \$500,000. Shares \$5 each, unassessable; 40,000 shares in the Treasury.

President, D. N. Estabrooks; Vice President, J. Y. Richardson; Secretary and Treasurer, J. A. Blanchard. Directors—D. N. Estabrooks, J. Y. Richardson, James Weymouth, Daniel McCulloch and Erastus Lane, of Oldtown; — Sargent, of Brewer, and Charles Greenwood, of Corinna.
Office at Oldtown, Me.

FAVORITE MINING COMPANY.

Bluehill, Me. Incorporated July 1, 1881.
Capital, 500,000 Shares, \$5 each; assessable.

President, A. E. Herrick, Bluehill. Vice-President, H. A. Tripp, Bluehill; Treasurer, H. B. Darling, Bluehill; Secretary, H. A. Tripp, Bluehill; Directors—A. E. Herrick, H. A. Tripp, Wm. H. Darling, Wm. D. Swazey, Chas. A. Barrett, M. K. Chase, Henry J. Billings.

FANEUIL HALL & SULLIVAN MINING CO.
Incorporated Feb., 1880.

Capital, \$500,000, divided into 100,000 shares, forever unassessable.

Company's office at the Mine, West Sullivan.

President, Charles H. North, Somerville, Mass.; Treasurer, F. W. Morrill, Boston; Secretary, L. A. Emery, Ellsworth, Me. Directors—C. H. North, Morris B. Boynton, Henry Farnum, F. W. Morrill and F. S. Tuttle, Boston; A. A. Hayward, Bar Harbor, Me.
A. A. HAYWARD, Supt.

LADY ELGIN COPPER MINING COMPANY
Blue Hill, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund 50,000 Shares.

President, Wm. T. Pearson, Bangor; Treasurer, Porter Nealey, Bangor; Secretary, E. C. Pearson, Bangor; Directors—Wm. T. Pearson, Porter Nealey, Edgar C. Pearson, Emory G. Ingalls, of Bangor; Alvin Roddick, of Boston; Arthur S. Newman, of Portland; Roderick H. Candage, of Blue Hill.

McFARLAND SILVER MINING COMPANY
Hancock, Me.

Capital, \$500,000; Shares \$5 each; Treasury Fund, 20,000 Shares.

President, Henry Whiting, Ellsworth; Treasurer, I. S. Johnson, Bangor; Secretary, A. W. Cushman, Ellsworth; Directors—Henry Whiting, I. S. Johnson, S. N. McFarland, F. A. McLaughlin, A. W. Cushman. F. A. McLAUGHLIN, Supt.

ROBERT EMMETT SILVER MINING CO.
Egypt Bay, Hancock, Me. Incorp. July, 1879

Capital, \$400,000; Shares, \$10 each.

President, H. Whiting, Ellsworth. Treasurer, A. A. Bartlett, Ellsworth. Secretary, George A. Parcher, Ellsworth. Directors—Henry Whiting, Marcus Mullan, James F. Davis, Guy Mullan, A. A. Bartlett.
P. MULLAN, Supt.

SNOW SILVER MINING COMPANY,
Bucksport, Me. Incorporated, Feb., 1880.

Capital, \$500,000; Shares \$5 each; Treasury Fund 40,000 Shares.

President, Capt. J. H. Hill; Vice-President, James Emery; Treasurer, A. H. Genn; Secretary, C. J. Cobb, all of Bucksport; Directors—J. H. Hill, James Emery, Richard Snow, Howard Swazey, Geo. F. Woods, E. P. Hill, Alfred L. Smith.
RICHARD SNOW, Supt.

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Quarry in operation at terminals of Bangor and Piscataquis Railroad.

Quality and natural advantages unsurpassed. Damage and drainage unequalled. Railroad transportation adjoining. Stock for sale. Sections leased on favorable terms. Capitalists invited to inspect.

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CHAPPARAL GOLD MINING CO.

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Stock full paid and unassessable.

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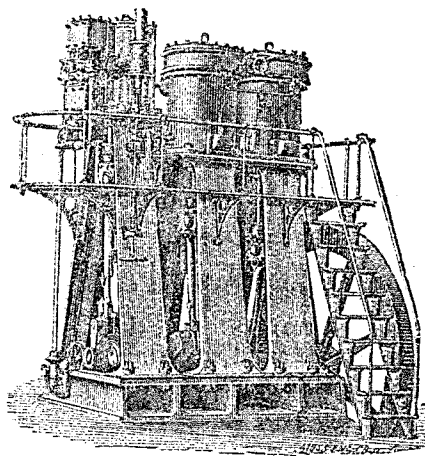
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General Mining Machinery.



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Stock Forever Unassessable.

Hon. F. M. LAUGHTON, President,
Bangor.

M. S. GIBSON, Vice President,
Portland.

F. H. WILLIAMS, Treasurer,
Bangor

C. W. HOBBS, Secretary,
Portland.

DIRECTORS:

Hon. F. M. Laughton, F. H. Williams and John S. Jenness of Bangor; M. S. Gibson of Portland, and E. H. Osborne of Boston.

SUPERINTENDENT:

J. M. JOHNSON, Gorham, N. H.

FINANCIAL AGENTS:

F. H. WILLIAMS & CO., Boston.

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76 Main St., Bangor, sells
Pianos, Organs.
And all kinds of musical goods at bottom prices.
Correspondence solicited.

BERTRAM L. SMITH,
Counsellor at Law,
BANGOR, MAINE.

Will attend to business in all parts of the State.

Sale of Delinquent Stock

YOUNG HECLA MINING and SMELTING CO.

Mines at Blue Hill, Me. Office, No. 12 West Market Sq., Bangor, Me.

NOTICE.—In accordance with the by-laws of the Company so many shares of each parcel of stock named below, as may be necessary, will be sold at public auction, at the Treasurer's office, No. 12 West Market Square, Bangor, Me., on Friday, the fourteenth day of April, 1882, at 11 o'clock A. M., to pay the delinquent assessment thereon, together with the cost of advertising and expenses of sale.

The amount of assessment due upon each share is five (5) cents.

The names of the owners of the shares to be sold as shown by the books of the Company, and the number or numbers of the certificate or certificates representing said shares and the number of shares for which each certificate was issued, are as below indicated in their appropriate column.

No. of Certificate.	Name.	No. of Shares.
No. 19.	C. P. Wiggin, Trustee.....	100
" 24.	C. P. Wiggin, Trustee.....	100
" 32.	C. P. Wiggin, Trustee.....	100
" 33.	C. P. Wiggin, Trustee.....	100
" 37.	C. P. Wiggin, Trustee.....	100
" 53.	C. P. Wiggin, Trustee.....	100
" 56.	C. P. Wiggin, Trustee.....	100
" 57.	C. P. Wiggin, Trustee.....	100
" 114.	A. P. Wiswell.....	50
" 125.	C. P. Wiggin, Trustee.....	100
" 160.	John E. Conlon.....	100
		1,500

CHARLES P. WIGGIN, Treasurer.

ASSESSMENT NOTICE.

OFFICE OF THE TREASURER
OF THE

Young Hecla Mining and Smelting Company.

Mines, Blue Hill, Me.

Office, 12 West Market Sq., Bangor.

BANGOR, ME., March 27, 1882.

Notice is hereby given that at a meeting of the Board of Directors held on the 20th day of March, 1882, an assessment of five (5) cents per share was levied upon the capital stock of this corporation payable to the Treasurer on or before the 15th day of April, 1882.

Any stock upon which the assessment shall remain unpaid on the 15th day of April, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made a number of shares of said stock sufficient to pay the delinquent assessment together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates that payment may be endorsed thereon.

By order of the Board of Directors,
CHARLES P. WIGGIN, Treasurer.

State of Maine Assay Office.

1871—1882.

Guaranteed assays and chemical analysis of all kinds. Superior facilities for chemical and metallurgical work. *Standard Smelting and Concentrating Works or Acid Works* built by the day or on contract, plans constantly on hand, no new process. New and second hand mining machinery furnished for Pumping, Hoisting, Crushing, Dressing or Smelting ores.

Gold, Silver, Zinc and Lead ores sold on commission.

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B. HOMANS, Editor and Manager, 251 Broadway New York.

DELINQUENT SALE NOTICE.

Douglass Copper Company.

Location of principal place of business, Bangor, Maine.

Location of Mine, Blue Hill, Maine.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 2, payable March 17th, 1882, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Am't
H. Gregory, Jr.....	69	100	\$25.00
John C. Watson.....	492	5	1.25
C. A. & W. F. Putnam.....	393	50	12.50
Otto F. Youngs, trustee.....	392	10	25.00
Otto F. Youngs, trustee.....	693	100	25.00
Otto F. Youngs, trustee.....	394	100	25.00
Otto F. Youngs, trustee.....	595	100	25.00
Otto F. Youngs, trustee.....	596	100	25.00
George H. Reinbach.....	38	25	6.25
George H. Reinbach.....	39	50	12.50
George H. Reinbach.....	245	25	6.25
W. F. Putnam.....	42	20	5.00
Eugene C. Belcher.....	221	25	6.25
George E. Furber.....	255	10	2.50
C. H. Smith.....	523	100	25.00
Samuel V. Lord.....	432	25	6.25
E. S. Converse.....	278	100	25.00
Lewis C. Benton.....	252	100	25.00
J. F. Hill.....	305	25	6.25
J. W. Gould.....	311	50	12.50
J. P. Spaulding.....	338	100	25.00
W. F. Rowe.....	350	25	6.25
Lewis W. Hodgkins.....	360	10	2.50
C. B. Ayer.....	375	100	25.00
F. W. Merrill.....	385	50	12.50
J. C. Chase.....	415	10	2.50
John Mackey.....	418	100	25.00
E. M. Hersey.....	426	100	25.00
J. S. Miller.....	428	100	25.00
F. H. Johnson.....	438	100	25.00
John Atwood.....	439	100	25.00
John Atwood.....	440	5	1.25
George B. Bradbury.....	466	50	12.50
Charles L. Williams.....	467	100	25.00
Charles L. Williams.....	468	100	25.00
T. W. Hix, Jr.....	469	50	12.50
T. W. Hix, Jr.....	470	200	50.00
G. B. Putnam.....	493	450	112.50
Frank P. Shiphard.....	498	50	12.50
A. H. Sanbury, trustee.....	298	10	25.00
W. F. Young.....	538	100	25.00

And in accordance with law and an order of the Board of Directors, so many shares of each parcel of such stock as may be necessary will be sold at public auction, at the Treasurer's office, in Bangor, Me., on Thursday, May 4th, 1882, at the hour of 11 o'clock A. M. of said day to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

FRANK H. WILLIAMS, Treasurer.
Office, 12 West Market Square, Bangor, Me.

Wanted. PAVING CUTTERS.

Highest prices paid.

Mr. Waldo Granite Works,
Frankfort, Me.

Assessment Notice.

OFFICE OF THE

TWIN LEAD MINING AND SMELTING CO.
OF MAINE.

4 MAIN STREET, BANGOR, March 25, 1882.

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, April 24th, 1882.

Any stock upon which the assessment shall remain unpaid on the 25th day of May, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates, that payment may be endorsed thereon.

By order of the Board of Directors,
JOHN R. MASON, Treasurer.

PIANOS!

JUST RECEIVED.

Chickering & Sons Pianos,

Six different styles; the finest assortment ever received in the State of Maine.

The metallic upright action is the best in the world.

IVERS & POND PIANOS!

One $7\frac{1}{2}$ octave square; one $7\frac{1}{2}$ octave upright.

EMERSON PIANO CO.,

One $7\frac{1}{2}$ octave upright; three $7\frac{1}{2}$ octave squares. A full stock of

WILCOX & WHITE ORGANS

All new and the best in the market, ranging in price from \$75.00 to \$300.00 each.

Sheet Music and Musical Instruments.

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A. M. DEVEREUX,

MASONIC BLOCK,

Main Street, Bangor, Maine.

For NEW YORK SOUTH and WEST.
FALL RIVER LINE FARE ONLY
FIRST CLASS **\$3.00**
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Boston to New York.

Leave Boston from Old Colony Depot by special express train at 6 P. M. (accommodation at 4.45 P. M.) week days, connecting with steamer at Fall River in ninety minutes.

Tickets, Staterooms and Berths secured at No. 3 Old State House, corner Washington and State streets, and at Old Colony Depot.
J. R. KENDRICK, Sept. 1. H. PALMER, Agent,
3 Old State House, Boston.

When answering or referring to our advertisements, please mention this paper.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine

E. M. BLANDING, EDITORS.
W. F. BLANDING,

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influence which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

Subscription price, \$2.50 per year, or \$2.00 when paid in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, APRIL 14, 1882.

The last feather has been piled on the camel's back by the appearance of droves of mammoth mosquitoes on the already and overburdened-with-woe Comstock. The people of the Lode think it is carrying the assessment deal a little too far when even their blood is drawn on.—[San Francisco Daily Report.]

The sales of Maine mining stocks on the Exchanges of Boston for the past week are simply the transactions of four days, the exchanges not being opened on Thursday and Friday as the former was Fast Day in Massachusetts and the latter Good Friday. The reported sales are 36,700 shares divided as follows; 3500 Milton at 17c to 15c, 12,100 Twin Lead at 6c to 3c, 19,100 Deer Isle at 20c to 15c, seller 30 days, 1500 Young Hecla at 10c to 15c, and 400 Blue Hill at 30c. The above were transactions on the Boston Mining and Stock Exchange. The sales at the Boston Stock Exchange comprise 120 Sullivan at prices ranging \$1 3-8 to \$1 1-8.

The American Electric and Illuminating Co. of Bangor has been organized by Mr. E. M. Hersey with a capital of \$100,000, divided into 10,000 shares of a par value of \$10. The object of the corporation is to illuminate by electricity the streets and buildings of our city. During the past week we have had a brilliant exhibition of the electric light and three lamps, one in front of the Post office, another at Pol's corner and the third in front of the Opera House, have severally shed forth their splendid illumination. The exhibition has been in every respect successful and it is to be hoped the Electric and Illuminating Company just formed will succeed in introducing the electric light extensively in our city.

The San Francisco Copper Company, whose mine is at Spenceville, Cal., have just paid their first dividend, of five cents per share, aggregating \$2,500. The company have

been operating seven years, and have expended \$275,000, \$45,000 of which were paid in by the stockholders, the remainder coming from the earnings of the mine. The ore is very low grade, but is successfully worked by the leaching process. The product is at present about 40 tons of cement copper per month, which is shipped east by rail. It contains from 85 to 87 1-2 per cent pure copper, and sells at about 2 1-2 cents per pound less than refined bars. It is used mainly for the manufacture of bluestone, and for copper paint. The deposits of ore are practically inexhaustible, and as the mine is now fully equipped with extensive works, regular dividends are expected to follow. When ores of such extremely low grade as these of the San Francisco Company, containing also many base elements including large quantities of iron and sulphur neither of which is saved, may be worked and shipped across the continent at a profit, who shall say that the immense deposits of rich sulphurets in Maine, with unequalled facilities for water shipment to the leading markets of the world, are not destined to add largely to the State's future prosperity?

The Portland Globe is decidedly "off" in presuming it to be a fact that "capitalists, discouraged by their want of success in opening the Maine bonanzas, are turning the cold shoulder toward the mining industry of this State." In no instance has a mining enterprise in Maine, started in good faith by capitalists, been abandoned. On the contrary, they are expending their money more freely and putting a larger amount into mining developments to-day than ever before. A number of "tin horn capitalists," so-called out West, came down here and having obtained possession of mining (?) properties of doubtful value endeavored to float a few wildcat schemes. Fortunately, they did not meet with marked success and abandoned the field early. Aside from these, nearly all the properties upon which work was commenced and suspended, are only idle because the owners are *not* capitalists, but men of small means. The only exceptions are a few instances in which, through an unwise choice of location, the owners became discouraged at finding that a larger outlay and a longer time than they had expected, were required to make of them paying enterprises; but there is scarcely a prospect of this character in the State which were it situated in some old, established mining district, would not be considered worthy of extensive development. The capitalists at present developing the majority of our Maine mines know what they are about; they are not troubled at the condition of the stock market; they are working their mines at the right end; they intend to get their money back with interest; that they will be successful is as certain as that the sun will shine; and when their success comes, as it will begin to come ere many months have passed, these properties throughout the State which are not dead, but sleeping, will spring into activity at a rate and in a manner to astonish the individuals who, in the face of abundant evidence to the contrary, persist in believing that the Maine mining interest has gone to the bad.

West Great Works is the name of a post-office and village in the town of Oldtown, about 2 miles south from Oldtown village and on the west side of Penobscot River. The large

block of new saw mills now being erected there are nearly completed; they are owned by Wm. T. Pearson & Co. of this city. About 55 men are now employed in finishing up the mills and putting things in order for active operations. In addition to the erection of the new saw mills, ground is now being cleared for a long canal which will connect with the river above the dam. This will be partly utilized at once by the erection of a large brick pulp mill at a cost of from \$100,000 to \$150,000. The waste wood at the saw mills will be utilized in pulp making and the poplar wood required will be mostly received by railroad. At the present day all kinds of writing and printing paper, except the very finest grades, are manufactured from a mixed stock of rag and wood pulp. For the latter, poplar and spruce wood are perfectly adapted, and immense quantities of this growth are within easy reach of our railroads. The articles of manufacture now produced from pulp alone are already enormous in quantity and variety, and new uses and demands are constantly springing up. Pasteboard boxes are very convenient for packing goods of all descriptions, and pulp now largely takes the place of wood in the manufacture of pails, barrels, powder kegs and numerous other articles of extensive use. In certain lines of business indicated above there is now a rare chance for the investment of capital in utilizing the water powers within twelve miles of Bangor. Oldtown has voted to exempt the mills erected on the Great Works canal from taxation for a period of ten years, and in so doing has struck the key-note of her future prosperity. We shall watch the development of the water privileges and other resources of this district with especial interest, as the success of the enterprises already established and others projected will not only be the means of attracting additional capital to and building up this entire eastern section, but will add largely to the growth and business prosperity of this city.

Personals.

T. BRIGHAM BISHOP, of Boston, was in the city last week.

SUPR. WHITE, of the Douglass, was in town Wednesday evening.

COL. DUFF, of the Twin Lead and Mammoth, was in the city on Wednesday.

MESSRS. GEO. D. COLBY and H. E. CAPEN, of Katahdin Iron Works, were in the city on Wednesday.

HON. CHARLES A. SHAW, of Boston, a former resident of Biddeford where for some time he edited and published a democratic newspaper, has been appointed manager of the celebrated Talmesada estate, in South America. This estate, which is owned principally in Portugal, has been in the same family for over one hundred years, and is probably, the largest and most profitable individual landed property in the world, embracing extensive cotton and coffee plantations, mills, mines, etc. It has always been under English and American management, the last manager having been a genuine Yankee from Vermont, who was in charge for nearly thirty years. Mr. Shaw was recommended for the position by New York parties, but has not as yet, decided upon accepting the appointment.

LIEUTENANT GOVERNOR TABOR, of Colorado, is enormously wealthy, having within the past four years acquired property variously estimated at from \$4,000,000 to \$8,000,000. During the Pike's Peak excitement 22 or 23 years ago, Mr. Tabor and his wife came West from Maine. But they did not win a fortune all at once. They spent all their money, as did thousands of others, found no gold, and thereafter roughed it in the border settlements, working for small wages at first, and afterwards keeping small stores in the mining camps. In 1877 Mr. Tabor bought in Denver \$2,500 worth of goods for a Leadville store, and tried to induce the firm to take half the Little Pittsburg claim in payment; but they preferred to take his note. That mine yielded him \$150,000 in three months, and eventually \$4,300,000. The original cost was "grub stakes" for the two prospectors, the bargain being that he should have half of whatever they discovered on the trip.

SHALL WE HAVE A GEOLOGICAL SURVEY?

[Richmond Bee.]

A large majority of our inhabitants are deeply interested in the bill now pending in Congress, relating to the extension of the work of the United States Geological Survey into the States. Not only is a large portion of the State of Maine undeveloped, but its actual resources, though acknowledged to be great, are very imperfectly known and appreciated. The most expedient method of diffusing this knowledge is through the government organization; hence, the universal desire to secure the passage of a bill tending to accomplish the desired result. Before the geological examination, a triangulation of the State will be necessary, in order that every elevation, the course of every stream, the boundary of every timber tract, the exact method of securing proper drainage, and the geology of the whole territory may be accurately mapped out, until its resources and physical features are made so easily recognizable as to be understood, not only by our own inhabitants, but by the dwellers in other parts of the world. The cost of this work will be trifling, compared with the great advantages to be derived from its completion. Our Senators and Representatives, who have won golden opinions by their late attempts to abolish the exactions imposed upon our mercantile marine, will add fresh leaves to their laurels by making strenuous efforts to secure the passage of a bill which is essential to the future welfare of our State, and, therefore, of great interest to all intelligent citizens.

[Portland Globe.]

It is high time that the general government should extend to this bleak commonwealth the benefits of a geological survey. There is a great and growing demand in Maine for an authoritative demonstration of our varied resources, agricultural, timber, water power, and mineral, particularly the latter, and now that the capitalist, discouraged at his want of success in opening the "pockets" of our Maine bonanzas, is turning the cold shoulder to what promised at one time to be a permanent and lucrative industry to our State,* this want of authoritative information, enumerating and describing our mineral resources, becomes of paramount importance to our citizens. It is true that Tom, Dick and Harry, from the great mining districts of the West have written elaborate prospectuses of various seven-by-nine holes-in-the-ground, in secluded and remote parts of the State, which were to rival the Comstock lode in richness, but these predictions have not been verified. Naturally then, the people who have invested in legitimate mining enterprises and become discouraged at their ill success, the people who firmly and honestly believe in a great future for Maine as a mining

*See editorial note.

State, and the capitalist who seeks a safe investment, and a fair return on that investment, and is hesitating between Maine and the West, are anxious for such a geological survey as shall settle the mooted question. Such a survey the United States alone can give, and it rests with our Congressional delegation to see that we have it.

Dips, Spurs and Angles.

—Dave Day, of the Ouray (Col.) Solid Muldoon, says that the most absurd feature connected with the Stickney trial was Tom Patterson's reading from the bible to a Denver jury.

—An individual reported to have been killed recently on the Knox & Lincoln R. R., is proved to have been dead at least an hour before being run over. This explanation will relieve the public mind of the wonderment naturally occasioned by the intelligence that a Knox & Lincoln train had succeeded in overtaking a live man.—[Richmond Bee.]

—During our recent visit to San Francisco, we were attracted by three peculiarities existing there, as follows: First—every other man we met was desperately trying to borrow money. Second—nobody had any money to loan. Third—the prevailing currency is the nickel five-cent-piece. After two days we became intensely homesick.—[Yuma Free Press.]

—A Washington editor went the other day to Dr. Bliss to have a carbuncle lanced. Bliss cut and slashed so vigorously that the victim fairly howled with pain. Finally he exclaimed: "In Heaven's name, Bliss, are you trying to murder me?" "Oh, no!" was the phlegmatic reply. "You said in your paper last summer, during Garfield's illness, that I was squeamish in using the knife. I'm only showing you that I am not;" and he cut harder than ever.

Bangor Real Estate.

A DECIDED IMPROVEMENT IN PRICES DURING THE PAST TWO YEARS—THE SCARCITY OF GOOD RENTS—POSSIBILITIES OF MANUFACTURING—WESTERN IMMIGRATION—OUR POPULATION—THE OUTLOOK IN GENERAL.

During the past two years there has been a decided improvement in rents of all kinds in this city, in genteel house rents especially, and now the latter are hard to obtain, even at a good price, while the ever-dismal monuments of "hard times," the pasteboard announcements "To Let," are few and far between in any street of the city. Vacant stores in desirable locations are not plenty, and in those occupied there has been great improvement during the past two years by way of new and stylish fronts, better interior furnishings, etc.

As recently as 1879—although the very hard pan of hard times seemed to have been reached in 1877—there were to be seen in a single business street of this city at least a dozen empty stores, while the "To Let" columns of the newspapers were as crowded as are the "Wanted" columns to-day. In 1880 the greatest visible move towards business resurrection was made, and some of these musty old stores—whose old-fashioned shelving and ancient fortress-like fronts seemed to partake of the antiquity and grotesqueness of their owners—were modernized and occupied, and the march of progress has been kept up until now only one or two stores out of more than a dozen are vacant, while the street itself actually has a new sidewalk on one side and a stretch of new paving.

The improvement and reoccupation of stores vacated long years ago, within the past two years has been general all over the city, and the reason of this is quite apparent to all—business has revived everywhere. But in regard to the houses—what is the reason of the increase in rents when, according to the census, Bangor's population declined in the past official decade—that is from 1870 to 1880—from 18,289 to 16,857? It is well to remark, just here, that if the late census of Bangor is any where near accurate, all the signs, so to speak, are at fault, and the composition of the city's population, and the relative proportion of classes, is entirely different from that of any other municipality yet figured up. One of the signs is this: There are generally five, and seldom less than three and one-half, people in a city to one name in the directory. Now, if Bangor has three and one-half people to each of the 7,260 names in the di-

rectory, she has, of course, 25,410 population, not 16,857; the latter figures only allow a proportion of about two and one-third people to one name in the directory.

Then other signs are the increased activity of business, the return of the young men who in the hard times of a few years since turned their way westward in search of more promising fields, and the greater occupation of houses. These things dispute the census, as does also common observation in the streets. Ask a man who has not been in the city for some years which way he should judge the population had moved, and he will invariably answer to the effect that it has decidedly increased. In view of these facts, many will come to the conclusion that the city of Bangor contains about 2,000 more people than the census gives her credit for. The discrepancy in the census may easily be accounted for by the intense stupidity of some of the "enumerators," one of whom, for a plain fact, could not correctly spell the simplest name.

And so the increased demand for good rents may not be so hard to explain after all. Allow that there are one thousand more people here than the "enumerators" discovered in 1880, and add to this the fact that there have been very few dwelling houses erected in Bangor during the past four years, while many old rookeries have been demolished, and part of the wonder is dispelled. The remainder of the question of "why the scarcity of houses and increase of rents?" is, we flatter ourselves, fully answered by the fact that the betterment of business and consequent easier financial circumstances of a majority of our citizens have prompted them to gratify wishes in all directions, to an extent much greater than formerly.

Among the many improvements, then, which followed the advent of commercial prosperity, was the utilization of genteel and even luxurious dwelling accommodations by people whose aspirations and ideas tended in that direction, and whose increased ability to meet the expenses of a comfortable or even luxurious household establishment was greater than for years before. In short, a freer circulation of money has developed the good taste and expanded the ideas of people in general, and the real estate owner is simply getting his share of the harvest. One-half to two-thirds of all classes of dwellings which two years ago were vacant are now occupied and at increased rents, while the brisk demand is now rapidly depleting the rent market. A gentleman who resides in the suburbs recently wrote to a Bangor real estate agent inquiring for a genteel rent—a good sized cottage, with seven or eight rooms. He wanted to pay from \$100 to \$150; but when the house described was found, in a locality to suit, it was discovered that the rent would be \$200.

In regard to building, there is not much, present nor prospective, nor has there been much for some years past, either of business blocks or dwelling houses. The construction of the new Opera House has employed a large force of mechanics, artisans and laborers since last May, and has added \$50,000 to the city's valuation. Some few residences have been built, and quite a number of stores, warehouses and dwellings either rebuilt or extensively repaired. This season a new High School building must be erected and a fine new residence will adorn the St. John's Catholic parochial lot at York and Boyd streets. Several large ice houses will be erected on the river front and there is talk of the starting up of a large woolen mill somewhere in lower Broad street, which would necessitate either the erection of a new building or the complete renovation of an old one. There is also talk of the erection of a brick block in Exchange street, just south of the Veazie Bank.

The time has not, however, yet come when capital can be safely invested to any very large extent, in building up our business streets with metropolitan edifices, for the reason that the business of the city will not, with its present magnitude, support such structures—or, in other words, support a sufficient number of tenants to make the buildings pay their owners a fair rate of interest. There is, however, at present one safe field for the profitable employment of Bangor capital, and that is to increase the city's prosperity and general business activity by the establishment of various manufacturing enterprises. Bangor's future prosperity lies in this direction, and until such manufactures are established there will be more or less uncertainty in real estate circles and dissatisfaction among our people. The recent discussion in regard to the power at the Water Works dam has resulted in the expression of an opinion by a noted Massachusetts hydraulic engineer that with said dam at its present height, the power is not near as great as the great volume of water would seem to indicate, and is not regular enough for cotton or woolen mills on account of the great rise and fall of the tide. Hence, other manufactures than those mentioned must be instituted at the dam or the dam be built higher. This last operation would involve the flooding of a large though almost worthless lot of shore land, for which the short-sighted and greedy owners would claim large amounts in "damages," thus erecting a barrier against progress, and not only hindering others' but their own prosperity.

But it has been sensibly suggested that mills be erected with auxiliary steam power, using the water when possible. There are in many inland towns and cities, accessible only by rail, large mills operated by steam alone, and operated profitably, so much so indeed that they have made wilderness spots blossom into lively and prosperous manufacturing cities. Now if this can be done in remote and almost inaccessible spots possessed of few natural advantages to which every pound of cotton must be carried by the expensive rail, after transshipment at some seaport, why not in Bangor with its noble river flowing a free and ample highway to the sea and to the markets of the world? Our cotton could be brought into the heart of the city in large vessels, and our goods for export loaded at the factories' very doors without recourse to railroads with their high tariffs. Capital might operate successfully in this direction, in the opinion of experienced business men, and let us hope it soon will, thus furnishing means for keeping our own people at home and inducing others to come.

Then the tide of immigration will set toward instead of away from the Queen City, and the "star of empire" in its often misleading flight, be no longer a magnetic attraction to draw young followers from eastern homes. It was natural, of course, when the new western country was to be developed, that eastern towns and cities were forsaken for the forest and prairie, which have now been transformed into a wealthy group of states—in fact a distinct and powerful section of the Republic. But the richest and the best of the western land has been taken up and a great many of the army of immigrants have, to say the least, failed to get rich. Many who recently went into the new, rude country, were entirely ignorant of the art of farming and quite unfitted to bear its burdens and stand its toil. The cities are not much different from or better than eastern cities as far as plentitude of work and amount of wages are concerned, and there is constantly pouring into them the great army of the world's immigration, which generally provides two men for one desirable job. Nor are details of life in the far West especially agreeable to the eastern boy, and he is very apt to be discontented and ill at ease among the great free-and-easy frontiersmen with their rude mode of living.

There have been many departures from this city for the West, and also a good many returns, particularly of late, for the reasons cited. It has been well said, by an old resident of this city, that if many of those who go west would work half as hard and live half as cheaply here as they do there, they would get along splendidly. However, it is about time that the exodus was stopped and it now devolves upon those whose province it naturally is, to see to it that Bangor's well known advantages are improved for the benefit of all, and that the city's future history be characterized by a long advance, in company with her sister cities, in the march of progress, the natural result of thrift and industry.

Concentration, Smelting and Milling,

APPLIED TO ORES OF THE EASTERN STATES AND PROVINCES.

BY P. L. BARTLETT, STATE CHEMIST, PORTLAND, ME.

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[CONTINUED FROM LAST WEEK.]

CONCENTRATION OF GALENA ORES.

It is often a difficult matter for a mining company to decide what method to pursue with regard to the economical reduction of their ores. It is well known that great mistakes have been made,—frequently made and repeated, by erecting useless and ineffective smelting or concentration works on their properties. Haste to get results, impulsive and ignorant directors, bad advice, all have a tendency to bring these things about. Every mining company should make it a rule to develop their mine at least two years before thinking of smelting works and it is not often then that such works are needed. This eagerness for smelting their own ores arises from an idea which always possesses mining men when selling their ores to custom concerns, that they are being cheated and that the smelters make enormous profits. Who ever sent a ton of ore to the smelters and got returns equal to what he expected? This subject of smelting ores will, however, be taken up under its proper head as we progress. The question now is—what ores to concentrate?

Supposing a shaft be sunk one hundred feet deep on a quartz vein containing galena. The galena is all disseminated throughout the lode in coarse crystals; occasionally a bunch of it occurs which is free from rock but by far the larger part of it is disseminated. The vein is, say three feet wide on an average, and the rock or vein taken as it comes will yield 10 per cent. of galena—that is to say every ten tons of rock taken out will yield one ton of clean galena. Will such a vein pay to work? Let us figure on it. And right here, before committing myself

to figures, I wish to say that in giving estimates I shall use figures which actually exist—taken from mining accounts when possible, if not possible, they will be made up with care from such as the current prices of labor and supplies indicate, always endeavoring to overestimate a little for safety. For instance, the price of labor is now pretty uniform in the New England States, the Southern States and Provinces, and not likely to change much. Good miners can be had for \$1.50 per day; experienced and extra-good miners at from \$1.75 to \$2.00; ordinary laborers, \$1.00 to \$1.35; foremen, \$2.50; engineers, \$2.00 to \$3.00; steel is worth 12 to 14 cts. per pound; powder, \$3.25 to \$3.50 per keg; rendrock, 25 to 40 cts. per lb.; fuse, \$6.25 to \$6.50 per thousand feet; batteries, \$25 each; exploders, 3 1-2 to 4 1-2 cts. each. Machinery varies greatly; often second-hand machinery can be purchased very low which will answer all purposes fully as well as new. Of course one can be very extravagant in the outfit of a mine, but I shall figure on only what is necessary. Lumber can be obtained in most of our mining centres at from \$12 to \$16 per thousand for spruce dimension stuff; bricks, \$9.00 per M.; lime, \$1.25 per bbl.; cement, \$1.50 to \$2.00.

Now that the question of prices is settled let us again recur to our problem. It has cost us to put the shaft down 100 feet, \$3,000, working by hand and horse power. The vein is found to be permanent, averages good—three feet of rock containing 10 per cent. of galena. We now have on hand 120 tons of good concentrating ore and are ready to start our levels and do some stoping. If the ore is worth stoping at all it may as well be stoped from a fifty or hundred foot level as from one a thousand feet deep. A shaft house with a wing large enough for small dressing works may be built, costing \$1,000; and a 60 h.-p. boiler may be set which will furnish steam for both mine and dressing works, at a cost of \$1,000; hoisting engine, \$700; pump, \$500; machinery for 15-ton dressing works, \$2,000; extras, \$500; total cost of the mine equipment, \$5,700; add mining expense, \$3,000, and we have expended, in all, \$8,700. It will be remembered that this kind of ore is the simplest and easiest to dress of any that is mined, consequently simple and inexpensive machinery may be employed in concentrating it.

We have now equipped our mine, at a cost of \$8,700, with all the machinery necessary to work it for some time to come, but in going down the hundred feet, if the shaft is of the usual dimensions, we have taken out 120 tons of ore which will go to offset our investment so far as it will reach. The cost of concentrating should not exceed over \$1.00 per ton. The cost of mining, after the shaft is 100 feet deep and all equipped, on the basis of a three-foot vein in fair ground, should not exceed \$4.00 per ton. Ten tons of the rough ore mined yields by concentration one ton of galena. This ton of galena, if equal to the average run of galena in Maine and New Hampshire, will yield 75 per cent. of lead and 40 ozs. silver per ton. The value of it delivered at the smelters would be \$83.50, since the regular charge for treating such ores would be \$20 per ton, less 10 per cent. for loss on lead and 5 ozs. per ton for loss on silver, as follows:

ASSAY VALUE.

Silver, 40 ozs., loss 5 ozs., paid for 35 ozs. at \$1.10 per oz.	\$ 38.50
Lead, 75 per cent., loss 10 per cent., paid for 65 per cent. at \$1.00 per unit.	65.00
Total value.	\$103.50
Smelting charge.	20.00
Net value.	\$ 83.50

Consequently our ten tons of rough ore brings at the smelters \$83.50, or \$8.35 per ton. To concentrate ten tons into one costs \$10; to mine the ten tons costs \$40; and to get the one ton of concentrates to market costs \$4 (general average); total \$54, which leaves us for net profit on the ten tons \$29.50, or \$2.95 per ton. A balance sheet of the mine for the first two years would show about as follows:

FIRST YEAR.

Dr.	
To sinking shaft 100 feet deep.	\$ 3,000
“ buildings, machinery and concentrating works.	5,700
	\$ 8,700

Cr.	
By value of 120 tons rough ore after concentrating and marketing.	\$ 846
Capital invested at end of first year.	\$ 7,854

SECOND YEAR'S WORK

Dr.	
To mining 3,000 tons of ore at \$4.00.	\$ 12,000
“ concentrating 3,000 tons of ore at \$1.00.	3,000
“ interest on money invested at 5 per cent.	471
“ wear and tear of mill and machinery 10 per cent.	500
“ freight and carting on 300 tons concentrates.	1,200

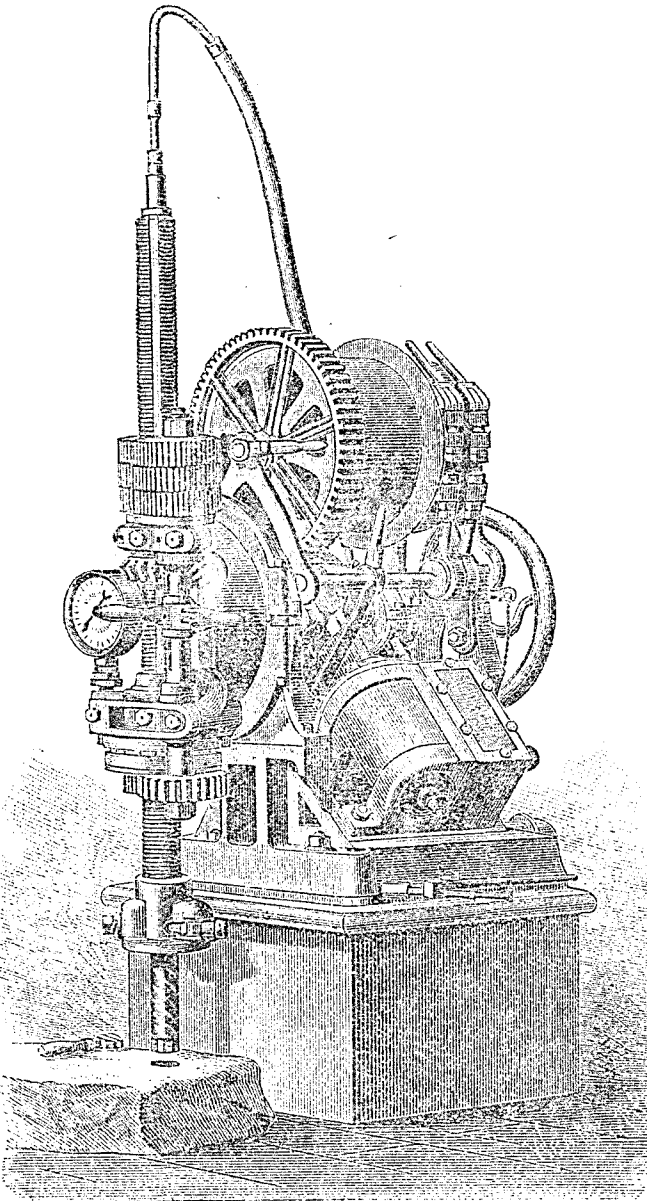
Total.	\$ 17,171
Cr.	
By sale of 100 tons concentrates at \$83.50.	\$ 8,350
Balance in favor of the mine.	\$ 7,821

Chicago has organized a Mining Exchange. Hope it will not pattern after the Boston institution.

The Little Champion Rock Drill.

As a machine for prospecting above and below ground, the diamond drill has a field of its own, which is secured to it by the fact that cores of the rock passed through are obtained, and that the hole can be started in any direction. The advantages of this class of drills are now so generally known that we need not dwell upon them at the present time. We propose to call attention to a more recent design, by Mr. M. C. Bullock, of Chicago, formerly connected prominently with older diamond drill companies. The Little Champion machine, which we illustrate, has become popular within a few years, and there are now over sixty machines at work alone in the Lake Superior District.

Our illustration well shows the general arrangement, which is very compact, a fact which those working such machinery in drifts or shafts will fully appreciate. As generally built, diamond drills are run by oscillating engines. Mr. Bullock, with the purpose of avoiding the vibrations and incidental drawbacks due to this arrangement, permanently secures his two steam cylinders to the bed-plate at an angle of 45 degrees to its base-line, and at right angles to each other. The steam enters a chamber in the bed-plate first, a throttle slide-valve, moved by the lever shown at the bed-plate in our engraving, serving to regulate the flow of steam to the steam-chests. The steam is distributed by balanced slide-valves arranged to cut off at two-thirds stroke. The reciprocating movement of the trunks and pistons is converted into a rotary motion for driving the drill by means of a crank shaft to which the connecting-rods are attached. On the same shaft are the eccentrics by which the proper motion is imparted to the valves. At the front of the crank-shaft, or that end facing the drill proper, is keyed a bevel gear-wheel not visible in our illustration, which meshes into and drives a similarly-beveled gear-wheel, which is indicated just above the gauge shown in our drawing. The feed-screw, which in our illustration is clearly shown, is mounted in and driven by the beveled gear just spoken of. It is fed by a vertical countershaft which will be recognized by its handles. In its upper portion, this countershaft bears three gears, meshing with three corresponding gears on the feed-screw. They are provided each with a different number of teeth, so as to obtain a variable feed, as either one or the other pair is made to engage. This is reached by raising or lowering, by means of the handle shown, a piston in the hollow countershaft, thus permitting a change of feed while the machine is running. The thrust of the bit is carried by a bearing, which will be found below the gauge in our drawing. It is so constructed as to contain an annular hydraulic cylinder, the pressure upon the liquid being indicated on the pressure-gauge. By this means, the change from one stratum to another of different hardness is indicated, and those who have used the machine speak approvingly of this feature. The bearing itself consists of a series of conical rollers inclosed between a retaining ring, and their outer ends have spherical surfaces of much smaller diameter than that of the ring in which they are, so that only a small portion of the roller is in contact with the ring, and that at the centre of the end where there is least motion. By this means, it is intended to reduce the friction to a minimum.



The feed-screw and all its connections are carried by a swivel-head, and it is connected with the frame in such a manner that the bevel-gears will always be in mesh with each other when the drill is in position for drilling holes, no matter whether they are to be drilled in a vertical line or at an angle. The swivel-head arrangement allows of the whole drilling apparatus to be swung out of the way when it is desired to remove the rods from the hole. In order to effect this latter manipulation as rapidly as possible, a hoist is provided. The arrangement is simple. To the main shaft driven by the engines is keyed a grooved pinion, which meshes into the spur-wheel shown alongside of the rope-drum in our engraving. By a lever, which is also shown, the shaft on which the spur-wheel is mounted can be raised or lowered, so that it can be made to engage and the hoist can be made to operate. The rope on the

drum is simply led to a pulley or sheave placed directly above the hole. The drill-rods themselves, 1.5-8 inches in diameter, are made of charcoal iron, lap-welded tubing, and are fitted with Osgood's bayonet clutch coupling, which uncouples by giving it one-fourth of a turn, thus saving much time in coupling and uncoupling the rods.

Our brief description may suffice to show that Mr. Bullock has paid close attention to details, and we may mention that he has, besides, a number of minor contrivances, all intended to contribute to the one end of facilitating work and guarding against accidents. The machine is made in parts, all weighing less than 300 pounds, so that it can be carried on mule-back. How largely it is used for prospecting, may be gathered from the fact that the Quincy copper mine of Lake Superior is using it, boring 500 to 800 per month of horizontal holes, mostly at right angles to the formation. In that work, nuggets of native copper are frequently encountered; but there is little difficulty in passing through them at a slow rate of speed.

As an instance of how varied the ground passed through may be, we may cite the following report of work done from the beginning of September to the middle of December, 1881, at Clarksburg, in the Lake Superior iron district, by the A. H. Day and Dexter mining companies. In the first hole, a four-inch pipe was driven 58 feet, then 28 feet were drilled in jasper, 33 feet in hard hematite, 44 feet in second-class iron ore, and 70 feet in quartzite. The second hole was put through 255 feet of quartzite. The casing of the third hole was down 59 feet, when it struck a boulder. The casing was drilled through two boulders; but as the last one was in quicksand, it canted, and the casing and hole were lost. Then

a second 4-inch pipe was put down 70 feet to the rock, and 38 feet were drilled through jasper and soapstone, followed by 29 feet of hard ore and by quartzite. In the fourth hole, a four-inch pipe was driven 102 feet down to rock, and then drilling was done through 109 feet of jasper, 30 feet of ore, and over 100 feet additional of rock.

* * In the State House at Augusta is a bunch of cedar shingles made by a Swedish woman, the wife of one of the earliest settlers of New Sweden, who, with her husband sick and a family of little ones dependent upon her, made with her own hands these shingles, and carried them upon her back eight miles to the town of Caribou, where she exchanged them for provisions for her family.

LODES, LEADS AND VEINS.

MASCOT.—Connection has been made between No. 1 and No. 2 tunnels, and stoping will commence immediately. A steady output of ore is assured for a long time to come. Our reporter is visiting the mine this week and will have something of interest concerning it in our next.

MILAN MINES.—Work in the Milan mines must be progressing rapidly, if the large shipments of ore by here is any indication of the work. Yesterday a train of eight or nine carloads were taken to Boston, and this, with the thirty or more carloads previously shipped to Portland, makes a shipment already of over 700 tons. It is also rumored that work is to be commenced in other places in Milan very soon, which bids fair to make things lively up there. May success attend them all.—[Corham Mountaineer.

DOUGLASS.—Work upon the large smelting furnace is progressing favorably, and the concentrating mill has been overhauled and is now running. The mine is showing some fine ore. General Manager Thompson has taken up his residence at Blue Hill and will hereafter give the mine his undivided attention. Treasurer Williams was in town last week and paid out upwards of \$8,000 to the miners and workmen. A large quantity of matte is being shipped to Bergen Point, New Jersey, which is expected to bring the company from five to six thousand dollars.

NEPTUNE.—Mr. Wm. Lee Johnson arrived in this city from Boston yesterday and informs us that the celebrated Neptune mining property has been purchased by a strong company of Boston capitalists who propose to operate it upon a large scale. Frequent mention has been made by us of this property which embraces the two Shot Islands in Machias Bay and where a copper sulphuret showing of marvelous richness has been discovered.

British Provinces.

The Fifteen-Mile Stream Gold Mine is to have a new stamp mill erected at once. This property is now owned by an American company.

A correspondent seeks information concerning the Fifteen-Mile Gold Mine. Will the Halifax New Era kindly tell us the condition of the property and also the address of the company working it.

The Pittsburg and Nova Scotia Gold Mining Company, of Tangier, recently encountered a very rich body of ore in the old workings of the Leary lead, west of the river, according to late dispatches. This property is the western extension of the Burlington property, upon which the Leary is now opening 1500 feet. The owners of the latter are preparing to work their mines extensively.

The Halifax Herald has been shown a very fine bar of gold, weighing 37 ounces, taken from the large lead discovered about two months ago on the British American property, in Montague district. It is the product of a crushing of thirty-two tons of quartz. This vein is situated about 75 feet north from, and runs parallel with, the celebrated Rose lead, and it is anticipated that it will prove very rich. Mr. G. W. Stewart, one of the owners, is now in New York in the interest of this and other valuable Nova Scotia properties.

Now that the snow is disappearing in Maine and Nova Scotia, prospectors are beginning to put in an appearance, being so near civilization that they do not suffer the privations necessitated in exploring in the Western wilds; hundreds are about to try their luck in the East, where the prospect of a lucky strike is much better and the exposure less; another advantage in Nova Scotia, the veins are easily discernible, and almost always rich at the surface and clearly defined, as in the case of the Copper Prince. The vein crops out boldly, and can be traced for miles. Nuggets of native copper can be knocked off with a hammer.—[New York Stockholder.

CHEZZETCOOK.—The Hall-Anderson Company have all of the machinery for their new mill and steam hoisting works now on the ground, and expect to drop stamps in thirty days. Meantime the old mill (water power) which has been frozen up and otherwise disabled for two months past, has resumed work to the extent of five stamps. The stockholders can hardly look for the April dividend, although there are 250 tons of "Serpent" ore on the dumps. And, provided all the five stamps can be kept busy day and night, sufficient bullion will be shipped for a dividend. Another rich body of ore was struck last week in the Eastern workings of the "Serpent" lode.—[Halifax New Era.

We have previously alluded to the work about to be commenced by the Copper Prince Mining Company, a New York

corporation, upon a valuable native copper property situated on Digby Gut, Nova Scotia, an arm of the Bay of Fundy. The company is capitalized at \$1,000,000, and is an unusually strong one, as will be seen from the following personnel: President, Hon. A. H. Cragin, a former United States Senator from New Hampshire; Vice-President, A. H. Ward, General Agent of the Erie Railway; Secretary and Treasurer, C. J. Bushnell, Secretary of the Anglo-American Dock Company; Trustees, A. H. Cragin, A. H. Ward, C. J. Bushnell, F. W. Allin, Shepard Homans, D. W. Douthitt and Joseph H. Parsons. Frank W. Allin is the Secretary and Treasurer of the Newfoundland Railway Company, and Judge D. William Douthitt, Shepard Homans and J. H. Parsons are well known capitalists of New York city.

Croppings.

(Compiled, Condensed and Confiscated from our Exchanges.)

Copper Queen, Arizona, produced 694,181 pounds of copper during the month of March; first two days of April, 52,000 pounds.

A 10-inch vein of asbestos has been discovered at a depth of 90 feet in the Apache Copper Mine, in the Santa Catarinas, Arizona.

In the Jay Gould mine, on Wood River, Idaho, two feet of solid galena have been struck which will average upwards of 200 ounces silver per ton.

A fine body of ore has been developed in the joint winze between the Noonday and North Noonday mines (Bodie district), 200 feet below the 512 level.

Seventy-two incorporated mines are now classed as dividend paying, and within less than 18 months these mines have paid \$19,994,695 in dividends, or more than 13 per cent. on the market value of all the mining stocks in the country.

The Copper Queen, Bisbee, Arizona, sold as a prospect for \$4,500. The next sale was for \$18,000. A smelter, with development, sold it next time for \$1,200,000. The market value of the stock is now \$1,600,000, and it is considered dirt cheap at these figures.

The Standard Coal and Iron Company have made another important purchase—the property of the New York and Straitsville Coal and Iron Company, in the Hocking Valley of Ohio. The transfer of the property is made under date of April 1st, and the terms are understood to be quite satisfactory to both parties. The property consists of six hundred and forty-five acres of valuable mineral lands and one first-class blast furnace in active operation, and a colliery with a daily capacity of upwards of one thousand tons. This company has been largely owned and controlled in New York. William Walter Phelps, Whitelaw Reid and Joseph Vilas have been the most prominent stockholders.

EASTERN INDUSTRIES.

—Biddeford and Saco will make four million bricks this season.

—A stock company has been formed at Saco for the manufacture of boot heels.

—Two vessels of 500 tons each are being built at H. M. Bean's shipyard in Camden. Sixty men are employed.

—Foreign exports from the port of Portland for the week ending on Saturday last were valued at \$167,492.12.

—The Winthrop Mills Company, Winthrop, have resumed operations on the foundation of their new cotton mill to be erected this season.

—The Paris Hill Manufacturing Company have just shipped to Liverpool, through a Boston house, a gross of Valley's patent folding tables.

—The Auburn shoe shipments for the week ending on April 5 aggregated 2,027 cases, against 1,972 cases in the corresponding week of 1881. A single firm have paid out \$1,000 per day for labor alone for the past six weeks.

—Goss, Sawyer & Packard, of Bath, are to build a clipper ship of 1000 tons for William H. Bosse and others of New Bedford, to be employed in the San Francisco trade. The same builders have also laid the keel for a schooner of 750 tons.

—It is estimated that 100,000,000 feet of logs were cut on the headwaters of the Kennebec the past winter, which, with the 15,000,000 "hung up" along the tributaries last year, will make a drive of 115,000,000 feet, to be started about the first of May.

—Messrs. W. O. & C. Barney, Searsport, shipped last week

to San Francisco five windlass purchases and one treenail machine, all of their own manufacture. The space in the boxes between and around the castings was filled with deck plugs, thus utilizing all the waste room.

—Sturgis, Lambard & Co's sawmill at Augusta will start up on the 17th inst. The mill employs some fifty men and has an annual pay roll of \$30,000. Extensive improvements and repairs have recently been made, and it is now one of the most complete establishments in the State.

—Messrs. Gay & Symmes, Auburn, will shortly commence the manufacture of 250,000 tin cans for the canning factory which they will run in Auburn this season. They will have fifteen acres of tomatoes planted. Besides canning fruits and vegetables, they will evaporate apples.

—The Portland Packing Company have contracted for the erection of the necessary buildings to carry on their canning operations at Winthrop. They have leased the necessary land for a term of five years, with the option of having it an additional five years, on the shore of Lake Maranocook.

—Messrs. J. H. and Geo. Leavitt, of Pine Point, near Old Orchard, have prepared and sold upwards of 10,000 gallons of clams during the past winter. The business has given employment to quite a number of men in the neighborhood. The clams were sent away, in kegs and barrels, by the Boston & Maine R. R. to dealers and consumers in Portland, Boston and elsewhere.

—Bristol is going to utilize her menhaden factories by turning them into canning factories. Messrs. Wolf & Rensing have enlarged and fitted up the factory at Mexico Cove, near Round Pond, and will employ nearly 200 hands when in full operation. A fishing steamer is being fitted out for them in Portland for the mackerel fishing. John Bourns talks of changing his factory at Pemaquid for the same business.

—At Lake Village, N. H., there are sixteen manufacturing establishments of various kinds, where stoves, ploughs, mill machinery, knitting machines of all kinds, needles, hosiery, leggings and wristers, cotton and woolen goods, laces, cotton yarns, braids, carpet wraps, twine, wickings, boots and shoes, packing boxes, lumber, carriages of all kinds, etc., etc., are made in almost endless quantity, giving constant employment to between 600 and 700 operatives.

—Messrs. Glover & Company had a claim amounting to \$800 on a farm and limestone quarry in the town of Thomaston. The quarry had not been developed, but showed rather unfavorably. To secure their claim they were forced to purchase a first mortgage of some \$4,500, and later on take the property for their claim. Last year they expended about \$3,000 in clearing off the quarry, and during the past winter have sold \$3,600 worth of the rock, which turns out to be of the choicest kind. To-day they can take \$10,000 cash for a half interest.

CANTON INDUSTRIES.—C. H. & Z. E. Gilbert's steam sawmill gives employment to sixty men and has a capacity of sawing 40,000 to 50,000 long lumber per day.—The pulp mill of the Dennison Paper Manufacturing Company, of Mechanic Falls, employs over a hundred hands. It runs night and day and turns out ten carloads of pulp per week, valued at \$10,000.—Goff & Merrill's shook and stave mill employs fifteen men.—Thayer's steam sawmill employs fifteen men.—The corn factory during the canning season gives employment to a large force of men, women and children.

—Mr. Pierre McConville, the Exchange street ship broker, has been in correspondence with the Danish government in regard to the building of a sailing revenue cutter here for the service of that country. The government has instructed Mr. McConville to have the vessel built immediately, and he will act accordingly. The craft will be sharp, after the model of an American yacht, and will be about seventy-five feet long on deck. She will be a fast sailer, and first class in all respects. The cutter will be constructed in Brewer, probably, and is expected to leave Bangor for her trip across the Atlantic in mid-summer.

SOME OLDTOWN INDUSTRIES.—Messrs. Conant, White & Co., at the north end of Oldtown village, are running their steam shingle mill to its full capacity, and turning out about 12,000,000 shingles yearly, with quick sales.—Guy E. Carlton and Wm. Wallace build lumbermen's batteaux on a large scale and have been in the business a long time. Mr. Carlton builds about 75 yearly and Mr. Wallace has sold 30 the past winter, with an increasing demand yearly. They find their way to all the lumbering regions of the country.—Herbert Gray is gradually increasing his business in the manufacture of extension valises, of which he now makes nine sizes. He employs from 8 to 10 hands.

—Attention is called to the notice in another column of "Paving cutters wanted at the Mount Waldo Granite Works." The quarries of the Mount Waldo Granite Company, at Frankfort, are doing a lively business; they have a large force of men employed at work and are continually hiring more. They are to build about one mile of railroad to connect with their other road to the wharf. One of the roads will start from the new blacksmith shop and come down to connect with the main track. The other will be a double track from the south end to connect with the one that goes by the cutters' sheds. At their wharf they have loaded three schooners with paving stones and there are two now at the wharf and two more expected soon. The paving cutters can make \$2.50 or \$3.00 per day and some even more. They have six four-ox teams at work at present and will buy several more the coming month. Their agent, James R. Kingsbury, is continually in search of large oxen and as it is very hard on cattle they are always busy.

Railway and Steamship Notes.

....Steamer Lewiston has commenced her summer arrangement of two trips per week.

....Steamer Mt. Desert, of the Rockland and Mt. Desert Line, will make two trips per week after Tuesday next.

....The Somerset Railroad Company have added a passenger car, six box and six flat cars to their rolling stock. They are also painting their depots.

....The Grand Manan Island News learns that an American steamer, the Narragansett, will make three excursions weekly the coming season between Bar Harbor, Eastport, Campobello and Grand Manan.

....At a meeting of the committees of the various cities and towns interested in the Knox & Lincoln Railroad, held at Damariscotta on Saturday last, it was decided by a vote of 22 to 5 that it was advisable to sell the road to the Maine Central for \$1,300,000 in 20-40 bonds at 5 per cent. A sub-committee was instructed to submit this to the Maine Central; the latter road having withdrawn all propositions.

....The Ottawa correspondent of the St. John Sun says that Messrs. Greene, Murchie and Osburn had an interview on Thursday of last week with the Minister of Railway and Public Works, when an understanding was reached that the Government would sanction the construction of a bridge over the St. Croix, that the site should be immediately below the present bridge at St. Stephen, that all connecting railways should have the use of the bridge, if required, and that construction should commence when the extension of the railway from Calais to Bangor was assured. These conditions suit all parties and the railway men go home happy.

Hotels and Summer Resorts.

The Kirkwood House Scarborough Beach, will open for the season June 15, under the management of the well known proprietor, Otis Kaler.

The Milford Exchange Hotel, Butterfield Brothers, proprietors, will be newly papered and painted this spring and a large billiard room fitted up for the use of their guests.

The American Hotel, at Grand Falls, N. B., has opened for the season under the management of Mr. George Wade. The Grand Falls Hotel will be opened in a few days by Mr. Olive, of Carleton, P. W. Brown, Esq., the owner and present proprietor, retiring from active business.

It is rumored that Mrs. E. Manson, under whose management the St. Cloud, Old Orchard, became so popular, is to manage the Ocean House, also at Old Orchard, the present season. Mrs. Manson and her son have been running the Augusta House with marked success during the past winter.

A number of capitalists have purchased about 3000 acres on the Isle au Haute with a view to converting that Island into an attractive summer resort. This is one of the most picturesque Islands on the coast of Maine, combining mountain and ocean scenery, as is the case at Bar Harbor, and may reasonably be expected to become as favorable a resort.

Mr. Gilbert Longfellow has sold his Island (formerly Shorey's Island) to Mr. Geo. A. Gardner, of Boston; price is understood to be about \$22,000. The sale includes some farm stock, utensils, produce, sheep, etc. It is thought that Mr. Gardner will make the island a family summer resort. Fifty years ago Mr. Gardner's grandfather owned the island; twenty-five years ago his father owned it and now the grandson of the previous Gardner is the proprietor. The island is still val-

uable for its wood, sheep grazing and farm privileges. It might be used as a favorable location for the fishing trade. As a summer resort, twenty years hence it may be one of the most popular as it already is desirable.—[Machias Union.]

Nuggets.

*A rich strike is reported in the Twin Lead Mine.

*The semi-annual dividends in Boston payable in April aggregate \$6,426,403, of which the 61 city banks pay \$1,332,290.

*The delinquent stock of the Young Hecla Mining Co. will be sold at auction at the Treasurer's office, 12 West Market Square, this forenoon at 11 o'clock.

*The Bangor Opera House was opened on Tuesday evening by a magnificent presentation of "Rosedale" by a very strong amateur cast. The elegant theatre was thronged on each of the three performances of this great play and a remarkable success was scored.

*At a meeting of the Appalachian Mountain Club, held on Wednesday afternoon, at the Boston Institute of Technology, Prof. G. J. Wright, of Oberlin, Ohio, gave an interesting account of a hunt for the terminal moraine in Pennsylvania, illustrated by a large map of the region.

*We have received a copy of a lecture on "Time," (printed by request), recently delivered at the M. E. Church at Globe City, Arizona, by Judge Reymert, editor of the Pinal Drill. Judge Reymert is an able scholar and an eloquent orator, and the address is well worthy of preservation in the form before us.

*Patents issued to Maine inventors under date of April 4, 1882, reported for the MINING JOURNAL by Wm. Franklin Seavey, Solicitor of Patents, Bangor: Chas. W. Bradford, Belfast, Bag Fastener; Wm. K. Rhodes, Portland, Lubricator; Rufus Moody, North Monmouth, Millstone; Geo. F. Weymouth, Dresden, assignor to Hiram Holt, Farmington, Hay Knife (re-issue). Whole number for the week, 371.

*We have received the first number of the Journal of Commerce, published at Duluth, Minn., devoted to the development of the resources of the great Northwest, and of Duluth in particular. Duluth is situated at the head of navigation on Lake Superior, is the eastern terminus of the Northern Pacific R. R., and is destined to become an important commercial centre. From the character of the publication, as shown by the initial number, its success is assured.

*A party of fourteen Swedish immigrants, direct from the old country, arrived at New Sweden on March 25. This is the first lot of immigrants to our Swedish settlement for 1882. They will be rapidly followed by other companies. Through tickets are now sold from Old to New Sweden for the very low price of \$38. Our flourishing Swedish colony has already increased from fifty to over 800 souls, and will undoubtedly number 1000 in population before the close of the present year.

*Nearly 16,000 patents were granted in the United States during the past year. This is the largest number ever granted in one year in any country. The division of electricity has grown to be the largest in our Patent office, showing, on an average, over 200 new applications monthly. There are now pending over 300 applications for patents on the electric light. Surely it will not be the fault of the Patent office if the United States is not well lighted in the years to come. There have already been granted over 200 patents on this light in its various forms.

*Superintendent King, of the Golden Circle, and two others left the mine on Seward's Island in a small boat, for their boarding house, on Waukeag Neck. The wind being fair, they improvised a sail, by putting a tree in the mast hole, expecting a quick and easy passage, about one mile to their landing. When, however, but a short distance from their starting point the boat was suddenly upset throwing all three into the water. One man swam for the Island, which he succeeded in reaching, but in too exhausted a condition to render any aid to the other two men still clinging to the boat. After a long, hard struggle, the wind favoring, these men were able to paddle or "swim" the boat to the shore.—[Ellsworth American.]

*The Bankers Magazine for April has been received. The following is the table of contents: "The Surplus and the Sinking Fund"—"Banks and Bank Directors"—"The Vermont Tax Law"—"The Pension Fraud"—"The Last International Monetary Conference—Redeemable Bank Notes—Early Coinage of the United States—Condition of the Foreign Middle Class—Current Events and Comments—The Rights of the National Banking Associations—New York Savings Banks—Gold and Silver Production—New Financial Bills—Account of a noted Parisian

Banker—The Bank of Mexico—Agreements between Indorser and Indorsee—Legal Miscellany—Book Notices—Inquiries of Correspondents—Banking and Financial Items—New Banks, changes, etc., and Notes on the Money Market.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 12, 1882.

	*Thurs.	*Fri.	Sat.	Mon.	Tues.	Wed.
NAME.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.	Bid. Ask.
Alouez.....	2 1/2	2 3/4	2 1/2	2 1/2	2 1/2	2 1/2
Atlantic L. S.....	13 1/2	14	14 1/2	14 1/2	14 1/2	14 1/2
Atlas.....	...	...	...	...	...	...
Blue Hill Copper.....	11	12	10	13	10	13
Brunswick.....	...	...	...	...	...	...
Calumet & Hecla.....	244	244 1/2	242	245	249	243
Catalpa.....	45c	50c	45c	50c	...	49c
Central.....	...	...	...	...	...	...
Copper Falls.....	3	3 1/2	3	3 1/2	2	3 1/2
Contentment.....	...	...	...	...	...	...
Douglass.....	...	...	...	...	...	...
Dana.....	...	...	...	...	...	...
Duncan Silver.....	...	...	...	...	...	...
Empire.....	...	...	...	...	...	...
Franklin.....	10 1/2	10 3/4	10 1/2	11 1/2	11 1/2	11 1/2
Harshaw.....	2 1/2	2 3/4	2 1/2	2 1/2	2 1/2	2 1/2
Huron.....	1	1 1/2	1	1 1/2	1	1 1/2
Hanover.....	...	...	...	...	...	...
National.....	2	2 1/2	2	2 1/2	2	2 1/2
Osceola.....	35	35 1/2	35	37	35	35 1/2
Pewabic.....	13	13 1/2	13	14	12 1/2	11 1/2
Phoenix.....	...	...	...	...	...	...
Pontiac.....	...	...	...	...	...	...
Quincy.....	46 1/2	47	46 1/2	46 1/2	47	46 1/2
Ridge.....	...	...	...	...	...	...
Silver Islet.....	20 1/2	23	20	21	21	23
Star.....	...	...	...	...	...	...
Sullivan.....	1 1/2	1 3/4	1 1/2	1 1/2	1 1/2	1 1/2
Humboldt.....	...	...	...	...	...	...
International.....	...	...	...	...	...	...

*No Board.

FLETCHER'S INK EXTRACTS.

Rose Scarlet, 50c; Green, 5c; Violet, 35c; Black, 35c; Blue, 35c, for package making a pint of ink. Orders should be sent to W. E. BROWN, Box 552, Bangor, Me. U. S. and Canadian stamps taken.

People's Clothing Store!!

James Tobin has been in the Clothing business 26 years and is carrying one of the

Largest Stocks in Bangor.

Long experience gives him great advantage over his competitors. His

Custom Department

is replete with all the newest

Novelties in Spring Goods.

C. F. WARD, one of the most accomplished cutters in Bangor, gives the best of satisfaction.

Give us an Examination and be Satisfied.

45 West Market Square,

BANGOR, ME.

SPECIAL NOTICE

— TO —
Manufacturers,
Merchants,
Miners, and
Capitalists.

THE MAINE MINING JOURNAL, hitherto devoted mainly to the mining interests of the New England States and Provinces, will in the future introduce other departments covering the

Railroad, Manufacturing, and such other INDUSTRIAL INTERESTS as may assist in the developing and building up of the State of Maine and Provinces.

The natural advantages of this section as a manufacturing center are not excelled by any other district in the country. It has most

Magnificent Water Powers, and easy communication by water and rail with the principal markets of the world.

THE MINING JOURNAL will lend its aid toward the development of these vast and varied resources, and will endeavor to furnish fresh and reliable information relating to the manufacture of

Cotton and Woolen Goods,
Boots and Shoes, Canned Goods,
Bricks, Lumber, Paper, Etc.

the Quarrying of

Granite, Marble, Limestone,
and the Mining of

Gold, Silver, Copper, Tin, Lead,
Iron, Etc.;

and it will be our aim to bring the merits and advantages of these various enterprises to the attention of capitalists.

If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

Agents wanted. For terms, address
THE MAINE MINING JOURNAL,
BANGOR, MAINE.

IMPORTANT BOOKS

— ON —
Mining, Mineralogy, Chemistry,
ASSAYING, Etc.

ANDRE. ROCK BLASTING. A practical treatise on the means employed in blasting rocks for industrial purposes. By George G. Andre, F. G. S. Fully illustrated. Svo. London. \$4 25
BARTLETT. MINES OF MAINE. Prospects, Geological Features, etc. By F. L. Bartlett. 12mo. 25c
BARTLETT. MINERALS OF NEW ENGLAND—Where and How to Find Them. By F. L. Bartlett. 12mo. 46 pages. Portland, 1877. 25c
BLOXAM. METALS: THEIR PROPERTIES AND TREATMENT. 1 vol., 12mo. London, 1872. \$1 50
BOLITHO. Pocket Mining Atlas, accurately showing the location, by States, Territories and Districts, of the Mines of the United States. Compiled and brought down from the latest official surveys and the most authentic sources. Oblong, flexible. \$1.00
CHURCH. THE COMSTOCK LODE: Its Formation and History. Illustrated by six plates and thirteen figures. By John A. Church, M. E. 4to. 225 pages. New York, 1879. \$7.50
COLLINS. PRINCIPLES OF METAL MINING. By J. H. Collins, F. G. S., with 76 illustrations. 12mo. London, 1875. 50c
DAVIES. METALLIFEROUS MINERALS AND MINING. Containing 145 illustrations of Geological Formations, Mining Operations and Machinery, by D. C. Davies, F. G. S. In one large volume. 12 mo. 432 pages. Price, \$5.00
DANA. MANUAL OF MINERALOGY AND LITHOLOGY. Containing the elements of the science of minerals and rocks. Illustrated. 5d edition. By Jas. D. Dana. 12 mo. New York, 1890. \$2.00
FRESNIUS. A System of Instruction in Quantitative Chemical Analysis. From the last English and German Editions. Illustrated. Svo. New York, 1879. \$1.50
HAMLIN. THE TOURMALINE. Its relation as a gem, with special reference to the beautiful crystals found in the State of Maine, by A. C. Hamlin, M. D., 12 mo. Illustrated. Boston 1878. \$2.00
JANNETTES. A Guide to the Determination of Rocks, being an Introduction to Lithology. By Edouard Jannettes. Translated from the French by Geo. W. Plympton, C. E. A. M. Illustrated. 12mo. New York, 1877. \$1 50
LAMBORN. The Metallurgy of Copper, being an introduction to the methods of seeking, mining, and assaying copper, and manufacturing its alloys. Illustrated. 6th edition. 12mo. London, 1875. \$1 00
LIEBER. ASSAYER'S GUIDE; or Practical Directions to Assayers, Miners and Smelters, for the tests and Assays of all the ores of the principal metals. 12mo. \$1 25
LAMBORN. THE METALLURGY OF SILVER AND LEAD. A Description of the Ores; their Assays and Treatment, and Valuable Constituents. Illustrated. 6th edition. 12 mo. London, 1878. \$1.00
MACFARLANE. An American Geological Railway Guide, giving the geological formation of every railway station, with notes of interesting places on the routes and a description of each of the formations. By James Macfarlane, Ph. D. Svo. New York, 1879. \$1 50
NORTH. THE PRACTICAL ASSAYER. Containing Easy Methods for the Assay of the Principal Metals and Alloys. Principally Designed for Explorers and those interested in Mines. By Oliver North. Illustrated. 12mo. \$2.50
ORTON. UNDERGROUND TREASURES. How and Where to Find Them. A Key for the Ready Determination of all the useful Minerals within the U. S. Illustrated. 12mo. \$1 50
OVERMAN. Practical Mineralogy, Assaying and Mining, with a Description of the Useful Minerals, and Instructions for Assaying and Mining according to the Simplest Methods. 9th edition. 12mo. Philadelphia, 1875. \$1.00
PHILLIPS. The "Explorers' and Assayers' Companion" on Rocks, Veins, Testing and Assaying. Svo. 465 pages. \$2.00
RICKARD. Practical Mining Fully and Familiarly Described. By George Rickard. Svo. London, 1879. \$1.25
RICKETTS. Notes on Assaying and Assay Schems. Illustrated. 2d edition. Svo. New York, 1879. \$3.00
ROSCOE. Lessons in Elementary Chemistry; Inorganic and Organic. New edition. Illustrated. 12mo. New York, 1879. \$1.50
SCHOFIELD. The Prospector's Manual for the Discovery of Quartz and Placer Indications of Gold and Silver Mining. Paper. Boston, 1878. 50c
WHEELER. OUTLINES OF DETERMINATIVE MINERALOGY. By C. Gilbert Wheeler. An Elementary Guide to Determinative Mineralogy for the use of Practical Mineralogists and Prospectors and for Instruction in Schools and Academies. Chicago, 1881. \$1.00
Any of the above books sent post-paid on receipt of price. Address

MAINE MINING JOURNAL,
Bangor, Maine.

EASTERN MAINE RAILWAY.

BANGOR and BUCKSPORT.

CHANGE OF TIME, April 10.

	A. M.	A. M.	P. M.	P. M.
Leave Bucksport,	5.30	10.00		5.00
Arrive Bangor,		6.42	11.15	6.05
Leave Bangor,	7.35		2.00	7.15
Arrive Bucksport,	8.45		3.15	8.25

The 5.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.
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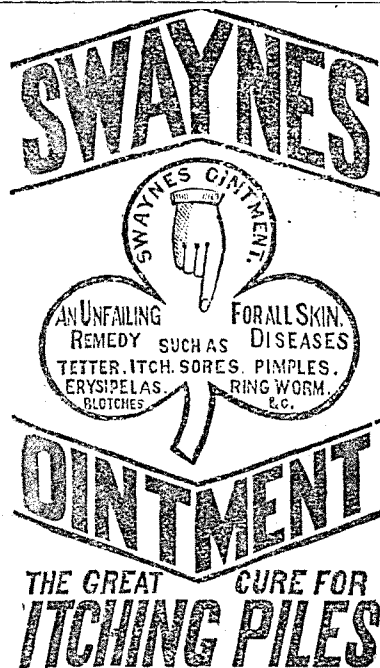
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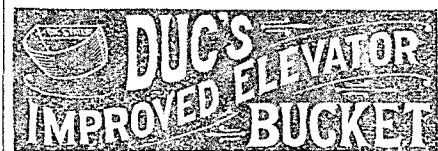
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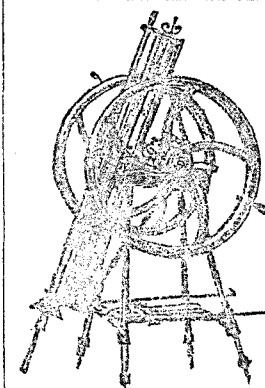
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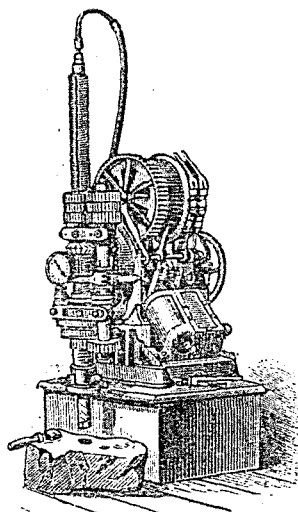
Location of mine, Blue Hill, Maine.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, payable November 30, 1881, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. certificate.	No. shares.	Am't
Wm. D. Swazey, treasurer,	31	1000	\$1000
Wm. D. Swazey, treasurer, trustee	608	1000	10 0

And in accordance with law and an order of the Board of Directors, so many shares of each parcel of such stock as may be necessary will be sold at public auction, at the Treasurer's office, in Bangor, Me., on FRIDAY, the twenty-first day of April, 1882, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

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5.—16.—121.

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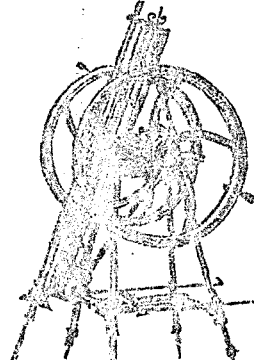
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[ESTABLISHED 1848.]
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OFFICE AND WORKS, WILKES-BARRE, PA.
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Send for Circular.

Delinquent Sale Notice.
Douglass Copper Company.

Location of principal place of business, Bangor, Maine.

Location of mine, Blue Hill, Maine.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 1, payable November 30, 1881, the several amounts set opposite the names of the respective shareholders, as follows:—

Names.	No. of certificate.	No. of shares.	Am't
Wm. D. Swazy, treasurer, trustee	59	1000	\$1000
Wm. D. Swazy, treasurer, trustee	608	1000	1000

And in accordance with law and an order of the Board of Directors, so many shares of each parcel of such stock as may be necessary will be sold at public auction, at the Treasurer's office, in Bangor, Me., on FRIDAY, the twenty-first day of April, 1882, at the hour of 11 o'clock A. M. of said day, to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

FRANK H. WILLIAMS, Treasurer.
Office, 12 West Market Square Bangor, Me.

Great Sale of Apple Trees.

F. H. DUFFY'S NURSERY.
HAMPDEN ROAD, BANGOR.
I have the choicest varieties of trees of extra size, including Pewaukee, King of Tompkins County and McIntosh. Also all varieties of Flower and Vegetable Plants, Hardy Roses, etc., all of which I shall sell at very low prices.

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Mining properties examined and reported on.
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Pianos, Organs,

And all kinds of musical goods at bottom prices.

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Will attend to business in all parts of the State.

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Importers of

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GROCERS,

—AND—

TEA DEALERS.

To parties who are unable to call in person we would be pleased to mail quotations and send samples when desired. Orders by mail will receive prompt and careful attention. Goods delivered free on boat or cars. Fancy Groceries and Produce specialties.

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OF THE

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Guaranteed assays and chemical analysis of all kinds. Superior facilities for chemical and metallurgical work. *Standard Smelting and Concentrating Works or Acid Works* built by the day or on contract, plans constantly on hand, no new process. New and second hand mining machinery furnished for Pumping, Hoisting, Crushing, Dressing or Smelting ores.

Gold, Silver, Zinc and Lead ores sold on commission.

F. L. BARTLETT,

Assayer and Chemist for State of Maine.

OFFICE AND LABORATORIES:

No. 385 Congress St. P. O. Box 596.

DELINQUENT SALE NOTICE.

Douglass Copper Company.

Location of principal place of business, Bangor, Maine

Location of Mine, Blue Hill, Maine.

NOTICE.—There are delinquent upon the following described stock, on account of assessment No. 2, payable March 17th, 1882, the several amounts set opposite the names of the respective shareholders, as follows:

Names.	No. Certificate.	No. Shares.	Am't
C. A. & W. F. Putnam.....	293	50	12.50
Otto F. Youngs, trustee.....	592	100	25.00
Otto F. Youngs, trustee.....	593	100	25.00
Otto F. Youngs, trustee.....	594	100	25.00
Otto F. Youngs, trustee.....	595	100	25.00
Otto F. Youngs, trustee.....	596	100	25.00
George H. Reinbach.....	85	25	6.25
George H. Reinbach.....	20	50	12.50
George H. Reinbach.....	243	25	6.25
W. F. Putnam.....	42	90	5.00
Eugene C. Belcher.....	221	25	6.25
E. S. Converse.....	278	100	25.00
Lewis C. Benton.....	282	100	25.00
W. F. Rowe.....	350	25	6.25
Lewis W. Hodgkins.....	280	10	2.50
C. B. Ayer.....	373	100	25.00
F. W. Merrill.....	388	50	12.50
J. C. Chase.....	415	10	2.50
John Mackey.....	415	100	25.00
E. M. Hersey.....	426	100	25.00
George B. Bradbury.....	466	50	12.50
T. W. Hix, Jr.....	469	50	12.50
T. W. Hix, Jr.....	470	200	50.00
Frank P. Shipyard.....	498	50	12.50
W. F. Young.....	593	100	25.00

And in accordance with law and an order of the Board of Directors, so many shares of each parcel of such stock as may be necessary will be sold at public auction, at the Treasurer's office, in Bangor, Me., on Thursday, May 4th, 1882, at the hour of 11 o'clock A. M. of said day to pay said delinquent assessment thereon, together with costs of advertising and expenses of the sale.

FRANK H. WILLIAMS, Treasurer.

Office, 12 West Market Square, Bangor, Me.

Wanted.

PAVING CUTTERS.

Highest prices paid.

Mt. Waldo Granite Works,

Frankfort, Me.

Assessment Notice.

OFFICE OF THE

TWIN LEAD MINING AND SMELTING CO. OF MAINE.

4 MAIN STREET, BANGOR, March 25, 1882.

Notice is hereby given that at a meeting of the Board of Directors, held this day, an assessment of five cents per share was levied upon the capital stock of this corporation, payable to the Treasurer, April 24th, 1882.

Any stock upon which the assessment shall remain unpaid on the 25th day of May, 1882, will be delinquent and will be advertised for sale at public auction, and unless payment be previously made, a number of shares of said stock sufficient to pay the delinquent assessment, together with costs of advertising and expenses of sale, will be sold as above.

Stockholders will please present their certificates, that payment may be endorsed thereon.

By order of the Board of Directors,
JOHN R. MASON, Treasurer.

PIANOS!

JUST RECEIVED.

Chickering & Sons Pianos,

Six different styles; the finest assortment ever received in the State of Maine.

The metallic upright action is the best in the world.

IVERS & POND PIANOS!

One $7\frac{1}{2}$ octave square; one $7\frac{1}{2}$ octave upright.

EMERSON PIANO CO.,

One $7\frac{1}{2}$ octave upright; three $7\frac{1}{2}$ octave squares. A full stock of

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FIRST CLASS Limited Tickets.
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J. R. KENDRICK, Supt. L. H. PALMER, Agent,
3 Old State House, Boston.

When answering or referring to our advertisements, please mention this paper.

Maine Mining Journal.

PUBLISHED EVERY FRIDAY AT

28 West Market Square, Bangor, Maine.

E. M. BLANDING,)
W. F. BLANDING,) EDITORS.

E. H. DAKIN, BUSINESS MANAGER.

THE MAINE MINING JOURNAL is published in the interest of all who desire to see the mineral resources of Maine and adjacent States and Provinces become a source of profit and wealth to the residents of this entire section. There is no more legitimate or useful branch of business than utilizing, by means of scientific and approved methods, the products of the soil and the treasures hidden in the rocks. To aid in promoting this grandest and noblest of all industries is the object of this JOURNAL.

The JOURNAL is entirely independent of any and all influences which might tend to detract from its reliability, and while attempting to arouse the public mind to the full importance of giving proper attention to this too-long neglected subject, it will also pursue a conservative course and endeavor so far as its influence may extend to guard the friends of the industry against any undue excitement.

Reports of mineral discoveries, of whatever nature and wherever made, are solicited, and should, when possible, be accompanied by specimens. All samples sent by mail or express must be prepaid.

Communications relating to mines, mining, treatment of ores and kindred subjects, from Geologists, Metallurgists, Practical Miners and Scientific Men generally, are earnestly desired.

Subscription price, \$2.50 per year, or \$2.00 when paid in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE MAINE MINING JOURNAL, BANGOR, MAINE.

BANGOR, FRIDAY, APRIL 21, 1882.

A correspondent from Connecticut writes us for the address of the parties who have the rental or sale of the Waukeag House at Sullivan. Will some one of our Sullivan subscribers kindly inform us?

There has been no material change in the prices of Maine mining shares at the Boston Mining and Stock Exchange, during the week, although the transactions have been of about the usual number and variety. At the old Board 900 Sullivan sold on Wednesday last at \$1 3-8 and \$1 1-2.

During the past week the American Electric and Illuminating Company have brilliantly illuminated our city streets with five electric lamps. The exhibition has been highly successful in all respects and has so favorably impressed the community that a petition addressed to Mayor Strickland urging the city to adopt this light for illuminating our leading thoroughfares has obtained a strong array of signatures.

For some time past negotiations have been pending in New York for the sale of a large amount of ingot copper. It is reported that on Tuesday last the transactions were brought to a close by the sale of 20,000,000 pounds at 18c per lb. This enormous amount will take nearly if not quite the entire product of the Lake Superior mines for the next six months, the time extended for delivery. This ensures a bright outlook for the copper market, and consequently for the producing copper mines, during the present year.

Dr. J. H. Rae, of Renfrew, N. S., passed through this city on Thursday of last week, on his way to Boston where he is about forming two new companies to operate in Nova Scotia gold mines. Dr. Rae is general manager for the Renfrew Consolidated Gold Mining Company, which will be remembered as a Maine incorporation which commenced

paying dividends in January last and has since followed them up at monthly intervals. The Dr. had with him three bars of gold, valued at \$1,500, the product of 43 tons of quartz from the Renfrew Mine. The Renfrew paid its fourth consecutive monthly dividend on the 20th of the present month.

The excursion to the Mascot Mines during last week was a most enjoyable affair. The party included about a dozen gentlemen from this city and Blue Hill, and seven from Boston, the two delegations meeting at Lewiston Junction on the G. T. R. While in Gorham they made their headquarters at the ever popular Alpine House, one of the most commodious and best kept village hotels in the Mountains. The party from this city made a short stay at Lewiston, both going and coming, and partook of an excellent dinner at the De Witt House, exchanging greetings with our old friends Messrs. Quimby & Murch, well known in this vicinity. The excursionists arrived home Saturday night, having crowded about as much pleasure and solid enjoyment into three days as would be possible under any circumstances. It was the generally expressed wish that the trip might be repeated at some time during the summer or early fall months.

Preparations for the National Mining and Industrial Exposition at Denver, Col., have so far advanced that it is considered safe to announce its opening for Aug. 1st. Forty acres of land in the most attractive suburb of Denver have been secured, a plan for the buildings has been accepted, and abundant funds to carry out the designs of the association which has the enterprise in charge are promised. As a display of all that pertains to the mining industry this exposition will doubtless be exceedingly interesting and important. Messrs. John W. Ryckman and Hamilton S. Wickes, the committee appointed to represent the Eastern Department, have arrived in Boston and were to address the members of the Boston Mining and Stock Exchange and the public generally at the rooms of the Exchange yesterday (Thursday) afternoon, in relation to the purposes and plans of the exposition and what is intended to be done in establishing a department especially devoted to the exhibition of the mining interests of New England and the mining machinery manufactured here.

The Denver Real Estate, Railroad and Mining Record expresses itself concerning "new processes" as follows: "The public generally are deeply interested in the future of the numerous new smelting processes which are destined to produce the long expected revolution in the present methods of ore production. Mr. Hamilton as yet has failed to convince people that he is able to take out all the valuable metals in the ores, while Mr. Duryea in vain attempts to vaporize the silver, gold, lead and condense and precipitate them as chlorides by means of a salt water spray. There is some confidence in the Waitz method of roasting sulphureted ores as used in Silver Cliff, and practical tests seem to have demonstrated its practical and economic utility. The Stevens smelter at Alma economically is a failure, and now the latest candidate for public confidence, the Sebillot process, is looked to with great interest. This process has the best of

chemical knowledge to back it, and promises well. Meanwhile thousands of tons of low grade ore are accumulating upon the dumps of every mining camp in the State, auguring boundless wealth to the inventor of a cheap and practical method for working these ores."

It was our privilege during last week to visit and inspect the extensive pulp mills of the Forest Fibre Company at Berlin Falls, N. H., on the Androscoggin, in charge of the courteous Superintendent, Mr. Merrill. The limited time of our stay did not permit a thorough examination of all the details connected with establishment, but we saw enough to convince us that the enterprising company must be doing an immensely profitable business, and to strengthen our belief that the pulp business, now in its infancy, is destined to become one of the most important of our eastern industries. The use of wood pulp, not only for paper making but for various other articles of manufacture, is increasing to an enormous extent, and there is little danger of there being an over-supply of this product of our forests for a long time to come. There are innumerable water privileges throughout Maine and New Hampshire favorably situated for the establishment of such enterprises which might be secured at a merely nominal figure, and we doubt not that ere long we shall see many of them utilized in this direction. Given a favorable location (which is easily found) and the necessary capital (which should be readily procured), the only thing necessary to make a success of the business is able and skillful management. This latter is more rare, but it can be had, and the experience of our mining companies has abundantly shown that capital cannot be profitably employed without it. The wood used by the Forest Fibre Company is mainly poplar and spruce; the poplar is hauled in from the surrounding country, and the spruce consists of the slabs and waste product from the sawmills of the Berlin Mills Company, several hundred yards above, and connected with the pulp mills by a car track. The logs and sticks, of any and all sizes, are fed into a large hopper and descend upon a set of heavy knives revolving with great rapidity. Here they are speedily converted into small chips and falling onto an elevator belt are carried into the adjoining building and dropped upon the floor of the mill. They are then shoveled into iron boilers set beneath the floor, where the chemicals are added and the chips reduced to pulp by boiling. After coming from the boilers the pulp is taken to large wooden tanks and passed through heavy rollers, thus straightening out the fibre and removing a large proportion of the water and chemicals. It then passes to the pressing room where it is made into cheeses under a hydraulic pressure of 3500 lbs. to the square inch, after which it is tied up in bags and is ready for the market. The liquid pressed from the pulp is taken to an adjoining building and the chemicals reclaimed with very little loss. The Forest Fibre Company employ a large force of men and their establishment is one of the leading industries of this section. A branch track from the Grand Trunk Railway extends to the works. The mills run night and day, are lighted by the electric light, and turn out thirty-five tons of pulp—or more properly fibre—every twenty-four hours which is sold to the paper-makers and other manufacturers at from four to five cents per pound.

Personals.

HON. F. M. LAUGHTON has been admitted to practice in the U. S. Supreme Court.

GEN. CHARLES HAMLEN will give the memorial address in Blue Hill on Decoration Day.

CAPT. J. H. MOYLE, Superintendent of the Blue Hill Mine, is contemplating a trip to England.

MR. J. A. DAVIS, of Ellsworth, was in the city on Tuesday last and left for New York the same evening, on mining business.

MR. CHARLES ELLIOT, Superintendent of the Water Works at San Francisco, Cal., has recently been visiting his brother, John Elliot, Esq., at Bath. The Independent says that Mr. Elliot has had but twelve days' rest from his duties, previous to this vacation of two months, for twenty-two years.

SILENT SMELTERS.

[Leadville Herald.]

Why is it that there are so many smelters and stamp mills lying idle, if not utterly abandoned, in Colorado? In traveling through the mining regions a by no means infrequent sight is a building in which it was originally intended to treat ore by one process or another, and which has cost a large sum of money, standing idle and valueless when it should be the scene of unceasing activity and a source of great revenue.

This strange sight may be explained in several ways. In some cases mills are erected by over-confident individuals in localities where the out-put of ore does not warrant any such display of enterprise. The mill man, however, anxious to be first on the ground; and, possibly, with more money than good judgment, accepts as true the rose-colored statements of prospectors concerning their claims, and hastily puts up his machinery, only to find, after a large outlay of cash and time that there is not enough paying mineral in all the country around to keep a mill busy one month in a year. Again, the would-be mill owner inspects neighboring properties himself and decides that he can derive from them a plentiful supply of ore for the successful prosecution of his business. The mill is speedily built. Then its unfortunate proprietor discovers that he knew very little about determining the true character of ore and its suitability for treatment in his peculiar kind of mill; or the ore may change in character; or mine owners may fail through any one of many causes to produce a quantity corresponding with their original estimates. Then the mill, the birthplace of so many bright hopes, is abandoned, sadly, but of necessity, and remains a monument to the folly of too hasty action.

Among those who go down to the mines to smelt ore the case is of a like nature. Smelting is a process more intricate and difficult than milling, and shutting down a smelter is less practicable than shutting down a stamp mill. The smelter must have a large and continuous supply of ore to treat, and, above all, must have a manager of experience and full of resources, who can overcome the refractory nature of ore by some other process when the ordinary course of treatment fails. Merely theoretical men cannot manage a smelter. Practice alone, as much as in any other business in the world, makes perfect. Many an establishment intended for reduction works stands idle to-day, after involving its owners in extraordinary expense, because of the incompetence of its so-called manager. Pledgeling "experts" fresh from college, and ambitious persons filled with visionary and impracticable ideas and plans, are not the ones to manage smelters and mills, and it is due to the employment of such as these that many thousands of dollars have been lost in mining communities.

Recently blende has become of sufficient value to pay, in some cases, for concentration. Zinc blende when occurring alone in quartz is easily concentrated, almost as easily as galena, and the same method and same kind of machinery may be used for the purpose. Knowing the value of the ore, it is not a difficult matter for us to determine the size and quality of a zinc vein which will pay for concentration. Good blende of 60 per cent. produce is now worth in New York about \$20 per ton.

At the present time none is purchased containing less than 30 per cent. zinc contents. For grades running from 30 to 45 per cent. 25 cents per unit is paid at the smelting works, and for ores above 45 per cent. a little more is paid in proportion. Well dressed blende should run from 50 to 60 per cent. in zinc and is worth from \$15 to \$20 per ton. Taking into consideration the low price of zinc ores, it at once becomes evident that nothing but an extremely large vein, with pretty fair mining advantages at that, should induce one into the mining and concentration of this ore. A six-foot vein of blende containing 20 per cent or one-fifth part zinc ore, equivalent to 12 per cent. metallic zinc, would concentrate about five tons of rough ore into one ton of 50 per cent. concentrates, worth say \$15 per ton. Under fair conditions this six foot vein would cost about \$2 per ton to mine, unless very unusual facilities were afforded, and the cost of concentration would be about 60 to 75 cents per ton, possibly not more than 40 or 50 cents if worked on a large scale. Under these circumstances our balance sheet would stand about as follows on each 1000 tons treated:

Dr.	
To mining 1000 tons of ore	\$ 2,500
" concentrating 1000 tons of ore	600
	\$2,600
Cr	
By 210 tons concentrates at \$15.....	\$ 3,150
	\$ 490

This leaves us a profit of \$400 out of which we must pay freight to the market and that amount would hardly be sufficient for the purpose, unless the mine happened to be located contiguous to a good shipping wharf. It will be noticed however, that if we could reduce the cost of mining down to say \$1.50 per ton, which is often possible, a fair profit may be realized.

No one should go into zinc blende mining unless the facilities for mining are exceptionally good, or a goodly proportion of the ore can be obtained massive enough to ship at once without much dressing of any kind. By a wise provision of Providence, fortunately, nearly all of the zinc veins here in the East contain in admixture other more valuable ores, as argentiferous galena and fine copper ores; both of which can be separated from the blende and sold, so that it is often difficult to say whether the mine should be called a zinc mine or a lead, silver or copper mine. At all events one or the other of the ores produced is a by-product of the mine, and while the blende may only just pay expenses, the by-product, be it galena or copper, pays the profit. It is a fact not perhaps known to all that galena occurring in admixture with blende is very much more likely to be rich in silver than if occurring alone. Why this is so I do not attempt to explain, but I am satisfied of the truth of it from my own experience with such ores.

As I have reserved the subject of complex ores for special treatment further on, it is perhaps not necessary to say more in this connection regarding blende in admixture with other ores, but treat of it under the proper heading.

(CONTINUED IN OUR NEXT.)

The Mascot Mines.

The recent transfer of a controlling interest in the capital stock of the Mascot Mining Company to well known Bangor gentlemen, and the consequent removal of the executive offices to this city, have awakened a general desire among parties in this vicinity to know more about the condition and prospects of the mines belonging to the company. The shipments of ore to Boston and the bullion produced from it at the New England Smelting Works have also attracted much attention in that locality. We feel therefore that a few facts in relation to this promising property will be of interest to our readers; and as fears have been entertained and expressed in certain quarters that the somewhat flowery newspaper representations appearing from time to time have been overdrawn, we shall confine ourselves to a plain statement, without embellishment, of the condition of the property as it appeared to our reporter during a recent visit. So much has been said concerning the Mascot Mines in previous numbers of this JOURNAL that our present remarks must necessarily consist largely of a repetition and recapitulation of former statements; but this, we are sure, our former readers will readily pardon in view of the importance of the subject and its relation to operations in other New England mines.

The Mascot Mines are situated at Gorham, N. H., a noted summer resort in the White Mountains, ninety miles from Portland, on the Grand Trunk Railway. To the north of the village, across the Androscoggin River, stretches a high range of hills in the midst of which rises Mt. Hayes. At its base, some four or five hundred feet above the bed of the river, lies Mascot Lake, where the mine and works are located. The distance

from the village and railway station is about a mile, over a good turnpike road built from the mine to the river by the Mascot Company at an expense of over \$500. During the winter of 1880-81 Mr. J. M. Johnson, now Superintendent, after prospecting in the vicinity, commenced work upon a promising vein on the western shore of Mascot Lake and took out several tons of handsome galena which were sent to Boston and smelted. Upon the strength of this showing the Mascot Company purchased this and also the two adjoining claims, one on either side, and in May last started a tunnel with the intention of cutting the vein at a depth of 75 feet from the surface. About the first of August work was commenced on the "Galena King" claim, lying east of the lake on the side of Mount Hayes, with such excellent results that most of the development work since that time has been confined to this point.

From the eastern (or more properly northeastern) shore of the lake rises an almost perpendicular cliff some 300 feet high, forming the first of a series of terraces constituting the southern slope of Mount Hayes. Work was commenced near the top of this cliff by driving an open cut along the vein for a distance of some 70 feet. This cut, which is about 40 feet deep, has been roofed over and extended as a tunnel into the mountain; it has already penetrated more than 200 feet, following the foot wall of the vein. Nearly a hundred feet, below this point a second tunnel has been driven into the face of the cliff to a distance of 178 feet, also following the vein. An upraise in tunnel No. 2 connects with a winze from the tunnel above. The vein is a contact, the foot wall being granite and the hanging a mica schist—although, in truth the hanging wall has not yet been found and the vein is therefore of undetermined width. Crosscuts have been run from both tunnels, one being in 26 feet, both of which have failed to encounter the opposite wall. Several times it was thought it had been found, but further explorations revealed a body of ore and vein matter beyond. The gangue of the vein consists principally of quartz, quartzite and spar. This is interspersed throughout with galena, not in bunches and pockets, but in seams, stringers and bands, of irregular widths varying from a mere thread to several inches. Indeed one of these ore streaks which has clung to the foot wall through nearly the entire length of No. 1 tunnel is in many places fully fourteen inches wide and has furnished solid masses of ore weighing from several hundred pounds to several tons each; other streaks as shown in the floor of this tunnel are from three to eight inches wide. In No. 2 tunnel the ore streaks seem to be somewhat smaller, but more numerous, while the galena is of a finer quality and runs higher in silver. From this development work alone the company have taken out and shipped to the New England Smelting Works at East Boston over 140 tons of cobbled (and therefore very nearly pure) galena, while quite a large quantity remains in the ore house and at the mouth of the tunnel. Some 1,200 tons of No. 2 ore, suitable for concentrating, are also on the dump. Of the value of the ore taken out and as exposed in the various parts of the mine we shall speak in a future issue, as we are at present awaiting the results of a number of tests; suffice it to say that it is very easily cobbled or concentrated and smelted, while if reliable assayers are not at fault it runs much higher in silver than has been generally supposed.

The location of the mine is exceptionally favorable for rapid and economical working, no expensive hoisting and pumping machinery being required. The mine is perfectly dry, and were it not it would drain itself, at least for a long time to come, while the waste is dumped directly at the mouth of the tunnel and the ore is lowered and the buckets raised by the force of gravity alone in shutes built for the purpose, the full bucket bringing up the empty one. Lying fully exposed, as it is, nearly from top to bottom of the mountain side, the vein can be attacked at many different points and a large force of men put at work with a certainty of being in ore, so soon as the company may consider it advisable to do so. With the 500 feet of tunnels and winze already opened a fair amount of good stopping ground has been exposed and the tunnels will continue to be extended as rapidly as possible into the heart of the mountain. Starting two more tunnels are also in contemplation, one above and the other below the present workings. The mine is well equipped for future as well as present operations, and from this time on the work of development and the extraction of ore will be pushed vigorously, increasing the working force as rapidly as the management may deem warranted. A substantial ore house has been built at the foot of the shute and stairway leading from the tunnels, and a luxurious hotel containing twenty-seven sleeping rooms, hot and cold baths, etc., kept in a first-class manner, furnish the workmen with all necessary conveniences and comforts.

* * * The ship Louisa Walsh, 1,500 tons, has been chartered to carry ice from Belfast to Liverpool, this being the first ice export from Maine to Liverpool.

Southern Mining Interests.

[Industrial Review.]

The State of Georgia now yields over \$1,000,000 per annum in gold bullion, and her gold mines are attracting general attention. The gold region of Georgia is out of the reach of railroad and telegraph, and consequently little of the extensive work being done is reported. Several companies, with capital in excess of \$100,000, are engaged in working or establishing mills, and the yield will be largely increased from date. Dr. Little, the State Geologist, asserts that there is more gold in Georgia than there was in California, and that the annual yield might be increased ten times above what it now is, and then be practically exhaustless. The most interesting experiment, perhaps, that is being tried in the Southern gold region, is that of dredging the gold-bearing river. It is well known that the sands of the Chatahoochee and other rivers are rich with gold. Several clumsy attempts have been made to work them; but, while the richness of the sands has been demonstrated, it has been impossible to mine them in sufficient quantity to make it worth the while. A Boston company, with a new process, has taken hold and promises rich results. The gold yield will be enormously increased if the sands of the river can be lifted, as is promised.

The uplands of the State of Georgia embrace three and a half million acres of gold-bearing grounds, and this area carries underneath it mineral wealth consisting of fully one hundred and sixty-five different minerals, and, notwithstanding her rapid strides in the development of agricultural industries, even King Cotton is fast taking a subordinate position to that of the mining industry. Northern Georgia has the oldest gold mining camp in the United States—the Dahlonega mining district, Lumpkin county—the Cherokee Indians having sold gold to the whites of Virginia over two hundred years ago. Dahlonega has 280 stamps pounding at the present time; new mills are in process of erection to work 250 more. The exposition held at Atlanta, at which the mineral exhibits received a large share of attention, resulted in a more thorough examination of the mineral resources of the State, and capital, both native and foreign, has sought investment, which will, in the near future, add very materially to the growing wealth of the State. It is estimated that fully 1,000 stamps will be in effective operation by the 1st of next October. An agent of the English owners of the famous Emma silver mine, of Utah, has been making purchases of gold grounds and water privileges during the present season, the ground secured being mostly on the Etowah River, which has produced millions in the past. A New York syndicate of capitalists have just closed the purchase of seven lots of forty acres each. Georgia has at present over seventy gold mills at work.

In North Carolina, there is considerable activity in gold mining, and that State bids fair to surpass Georgia in annual yield. In coal and iron mining, there is unusual activity, and a rapid tendency towards consolidation. Many small properties have been purchased within the past month and many large properties consolidated. Development that has been heretofore casual will now be made systematic and thorough. Abundant capital has been secured to equip and operate mining properties on business principles, and results in accordance with the changed order of things may be expected. It is worthy of note that lines of railroad now being built penetrate new and exhaustless coal and iron fields and have attracted "prospectors" from all parts of the world. Indeed, many of the railroad companies themselves are putting up the money, or lending their credit, to develop the coal and iron interests along the lines of their roads. The Louisville and Nashville Company has loaned its credit, to the amount of \$400,000, to enterprise in Alabama, and invested nearly \$500,000 in the Sewanee mines. The Erlanger people have bought immense coal tracts and are building a branch road to develop them.

EASTERN MINING NOTES.

DEER ISLE.—The annual stockholders' meeting of the Deer Isle Silver Mining Company will be held at Portland on Wednesday, May 3.

SUNBURST.—We acknowledge the receipt of some excellent ore from the Sunburst. The mine is looking better than ever and work progresses well but rather slowly on account of the sickness of several of the crew.

Egypt.

COPPEROPOLIS.—This company paid off its hands at the mine a few days ago, and the sinking of shaft No. 1 has been temporarily suspended until arrival and erection of steam hoisting and pumping machinery. This course on the part of the managers of the company became imperative. The influx of water at this season of the year became so great that the further sinking

of the shaft, which is now about 110 feet deep, became impossible without necessary machinery, which we are informed will be put in place as soon as possible, when work will be vigorously prosecuted with improved facilities for working.—[Sullivan Bulletin, April 15.]

HARVEY ELLIOT.—It is reported that a strike of very rich yellow copper ore was made in the bottom of the shaft, last Thursday, which promises to lead to great and important results to this property. Work on the mine is being carried along energetically.—[Sullivan Bulletin, April 15.]

FRANKLIN EXTENSION.—The annual meeting of the Franklin Extension Silver Mining Company will be held at Portland on Wednesday, May 3.

Sullivan.

SULLIVAN.—Reports from the Sullivan mine, says the Sullivan Bulletin, justify the belief that the underground workings are now making a handsome showing of high grade ore, the assay value of which is said to be over \$200 per ton, and that there is sufficient ore exposed in the mine to keep the mill running steadily. It is understood that new and powerful machinery for hoisting purposes will soon be placed on the property, when work will be continued with renewed vigor and on a more extensive scale than heretofore.

FANEUIL HALL AND SULLIVAN.—In our last report from this mine it was inadvertently stated that the crosscut from the 160-level was in 160 feet—it should have read 269 feet. A contract has been let to Messrs. Joy & Murphy for driving the crosscut fifty feet further, and the work is now progressing at the rate of twelve feet per week. The Ingersoll drill is doing excellent work; it is supplied with air from a new compressor built by the Geo. Blake Mfg. Co., of Boston.

MILTON.—Making excellent progress in running the southerly crosscut, and it looks quite favorable for making connection between shafts No. 1 and 2, during the present month. A Burleigh drill will be started next Monday near the present terminus of the westerly drift from shaft No. 1 for the purpose of meeting and connecting with the work now being done in southerly crosscut from shaft No. 2. Winze No. 1 has been thoroughly timbered and improved during this week, which will make further sinking more expeditious. The vein in bottom of winze is looking very well, and the ore met with is of a satisfactory grade.—[Bulletin, April 15.]

British Provinces.

The St. John News says the schooner "B. P. Brown" has arrived from the Quaco manganese mines, and landed at Reed's Point 325 tons of ore to be shipped to Boston by the American boat.

It is stated that the Bay of Fundy Quarrying Company has reorganized. The Albert Maple Leaf says that some of the solid men of Boston have taken stock and intend doing a rushing business this summer.

The Chignecto Post says: A company is boring for oil near Pietou, N. S., and the belief is that they have struck it. Samples have been obtained and satisfactorily tested, the only question now being that of quantity.

Tripoli.

Tripoli, so-called after the place of that name, whence it was originally brought, is an earthy substance used mainly in polishing stoves and metals. It is principally silica and has been found to consist almost wholly of the cast shells of microscopic organisms. It is found in Germany, England and in several localities in the United States—notably Missouri and Arkansas; Georgia also claims to have beds of it, while deposits of as yet unknown extent have been found in several localities in Maine and New Brunswick. Native tripoli, however, has been up to the present time almost exclusively a Western product, and is very little known except to railway men, who use it in great quantities for polishing purposes. The Missouri Tripoli Company, at Pacific, Mo., is one of the largest concerns of the kind in the country, and supplies the article to railway companies and manufacturers all over the land. The New York commercial papers quote the prices of tripoli, but these are confined to the imported varieties—German and English the only quotations of the native article we have been able to find appear in the St. Louis Journal of Commerce. At the request of a correspondent we give the latest quotations of the commercial article as follows: English, per lb., 13c; German, per lb., 13c; American, per lb., 6c; American, per ton, \$40.

Croppings.

[Compiled, Condensed and Confiscated from our Exchanges.]

The Chester Emery Company are pumping out their mines at Pittsfield, Mass., which have been closed since last July.

Copper ores are now shipped from Arizona to Baltimore for \$18.70 per ton. It is worth \$2.50 per unit at the works in Baltimore. This would be \$125 per ton for 50 per cent. copper. Much of the Arizona and New Mexico copper will yield that much, the average being about 25 per cent. Silver and gold contained is paid for besides.

Dr. T. Sterry Hunt has calculated that the amount of carbonic acid stored in the limestones of the earth would form not less than two hundred atmospheres equal in weight to our own. This, together with the carbon of the coal-beds, must have been drawn from the air, which he believes gradually received its supply of gas from interstellar space.

The Horn Silver Mining Company, Utah, during the year 1881, produced 16,341,994 pounds of lead and 1,259,903 ounces of silver. A careful estimate, by one of the very best miners on the coast, who is familiar with every detail of the mine, based upon past surveys and measurements, compared with later explorations, places the amount of ore in sight at over \$50,000,000.

The statement of the Hamilton Reduction Company, just published, shows the company to be in a very prosperous condition. They have a surplus of cash in the treasury, and also about 4,000 shares of stock. In addition to the valuable plant and patents owned by the company, the company have about 700 tons of ore, valued \$8,500. The works, at Eleventh avenue and Fifteenth street, are now open to the public, and the company expect soon to be in condition to begin operations.

The engineers engaged in running the line of the Tucson and Gulf of California Railroad have run across a wonderful mineral country in Myers' district, about seventy miles west of Tucson. The region is unexplored, and is revealing daily vast ledges of ore, silver and copper. The party have located a large number of claims along the line of their route. Prof. Van Buren, who accompanies the expedition as mineralogist, says it is the most extraordinary mineral section he has ever seen. The quantity of ore on the surface is described as wonderful.

A new method of utilizing charcoal dust is now being tried on a practical scale in the charcoal iron-furnaces of the Gere Iron and Mining Company. The new fuel is produced by mixing charcoal dust, sawdust and tar and submitting the mixture to heat in retorts. The braize is obtained from the pile of screenings which have in years accumulated about the blast-furnace. The tar is one of the by-products obtained from carbonizing wood in retorts. Mr. John Birkinbine, Secretary of the United States Association of Charcoal Iron Workers, says that the fuel is remarkably hard and resonant, and from appearances it seems that it solves the problem of utilizing the large amount of waste constantly accumulating about our charcoal iron-works as braize.

Mexico has produced, with the primitive methods at command, nearly \$4,000,000,000 in gold and silver; the Potosi Mines of Peru, \$900,000,000; and the United States, \$2,600,000,000, the latter being divided as follows: California, \$1,148,307,731; Nevada, \$469,125,943; Idaho, \$61,543,901; Oregon and Washington Territory, \$48,037,251; Utah, \$55,831,848; Arizona, \$17,930,175; and the remainder divided among Colorado, New Mexico, Montana, Wyoming and the gold producing States of the South. The largest pieces of native and chloride of silver found in the world were discovered in Mexico and the United States and weighed respectively 8,000 pounds, 3,700 pounds, 1,331 pounds, and 640 pounds, the last being found in the old Planchos de Plata, and is now in Spain. Of golden nuggets, the quartz lump extracted from the Monumental Mine, in Sierra county, Cal., valued at \$21,675, seems to be the largest, with the single exception of the Welcome Nugget, of Australia, which weighed 2,195 ounces, with a value of \$37,315 at \$17 per ounce.—[H. B. Clifford, in Bullion Miner.]

Some interesting statistics of the vast coal industries of Pennsylvania for 1881 are just issued from the office of the Secretary of Internal Affairs. In the anthracite regions 319 collieries have been in operation, employing 75,169 hands and turning out 27,929,128 tons at a cost of \$29,454,781 in wages, or \$1.054 per ton. There were 382 bituminous collieries in operation during the year, which produced 15,692,923 tons of coal, at a cost in wages of \$14,540,037, an average of half a mill over 93 cents per ton. In the anthracite collieries the employees worked on the average a trifle over 275 days during the year and produced 373.14 tons each, earning on the average \$397.38 in wages or a

fraction more than \$1.44 for each working day. In the bituminous mines the workmen had an average of 217 days' work during the year and produced 442.37 tons each, earning an average total of \$407.20, or a little over \$1.97 for each working day. As a large proportion of the employees are "helpers," or boys under age, who are paid small wages, the actual earnings of adult miners are of course considerably in excess of the average shown by the statistical returns.

EASTERN INDUSTRIES.

—The harness manufactory at Augusta of Herrick & Avery will employ about forty men this season.

—The granite company have begun work on the Harbor Quarry at Vinalhaven and last week put on twenty-six cutters.

—The town of Cornish has voted twelve to one to raise \$10,000 to build a shoe factory for Lynn parties, Mass., and exempt the same from taxation for ten years.

—The Atlantic Granite Company, under the management of Joseph Emery, have some thirty men employed at their quarry near Seal Harbor, South Thomaston. They are getting out monuments, building stone, and paving blocks.

—Mr. C. J. Hall has an order for fifty polished red granite columns for a church in New York. The granite will be quarried at Mt. Desert and brought to Belfast where it will be dressed. A new polisher for circular work will be built and erected at the foundry.

—Messrs. Richmond, Thompson & Company are doing a large business at their box factory at Jay, Franklin county. They will have 1800 cords of white birch to be made into various kinds of druggists' boxes. They are also making fan handles for the Brunswick Manufacturing Company at the rate of 100,000 per week.

—Business in Guilford is very good, and the coming season is likely to be as busy a one as the last. The brick factory, which was erected last year, is nearly filled with machinery, the most of which is running. Its dimensions are 52 by 151 feet. It is jointly owned by Henry Douglass, David R. Straw, M. L. Hussey, and Z. L. Turner.

—Messrs. Rufus Deering & Co. are building on York street in Portland a large dry kiln for the purpose of thoroughly and speedily seasoning all kinds of soft and hard lumber. The capacity of this great lumber kiln will be 45,000 feet in eight days. One and a quarter miles of inch pipe, two hundred feet of rails and ten cars will be required.

—Fifty operatives from the Lewiston cotton mills have gone to the St. Stephen cotton factory, having been engaged at \$1.50 per day, an advance of 50 cents on the Lewiston wages. Mr. Lee, of St. John, is under contract to supply the St. Croix Company with 1,000,000 more bricks, as they have decided upon at once proceeding with the erection of the proposed additions to the factory.

—A busy place at Cherryfield is at the steam mill of Mr. E. K. Wilson. Late last season Mr. Wilson made extensive additions to his mill, adding a new chimney, engine room, drying room, box-making room and wide sheds for protection of his stock, thus giving more room for his planer and other machinery used in box-making. Since the beginning of the year he has furnished a large number of boxes daily to Wolff & Reising, to be filled with empty cans for storage at their sardine factory in Millbridge. The same firm buy boxes of Mr. Wilson to ship to their shop in Eastport. Some of our other packing companies also patronize this mill. About fifteen men are employed.

—Frank H. Wiswell, East Machias, during 1881 shipped to Berry Bros., Portland, 585 cases or 30,437 dozen eggs. He paid cash for the eggs \$4,942.99; average price per dozen, 16 1-4 cts. The largest shipment in one week was 30 cases or 1,533 dozen. Allowing that each hen laid 200 eggs, there must have been about 1826 hens employed to provide the amount of eggs shipped by Mr. Wiswell. Mr. S. S. Hall, also of East Machias, shipped 6,300 dozen eggs during last year. Allowing domestic consumption on the same territory to be fifty per cent. of the amount shipped, the four or five towns including Machias and Machiasport will show an egg product of about 100,000 doz. for 1881, worth, at 16 cents per dozen, \$16,000.—[Machias Union.]

—The Collins Granite Company, East Blue Hill, employ 170 men and the force will shortly be increased to two hundred. Fifteen men are also employed in breaking paving. The company has contracts for cut granite, amounting to over \$60,000, mostly fine work. A large building has recently been erected

in the yard in which will be placed machinery for polishing granite. It consists of two machines for polishing flat surfaces, and two lathes for polishing columns. A forty horse power engine will be used. The quarry is furnished with a forty horse power boiler, a hoisting engine, pumping engine and a team drill. One boiler supplies the power for the three engines. The company's genial superintendent, Christopher Binder, is very much liked, and the foreman, J. H. Johnson, is the right man in the right place. Fulton and Saunders, of Ellsworth, have also a valuable quarry here, that is easy of access. They are working their refuse granite into paving.

—The lobster trade is one of no small importance to the coast towns of Maine in the spring of the year. Lobsters are caught and kept in floating cars till time of shipment, when they are packed in barrels and sent by steamer to Boston while alive, and upon arrival there are immediately boiled and sold from the markets. Mr. David Vose, who purchases lobsters here from the catchers, informs us that during March he paid eight dollars per barrel for lobsters and is now paying \$7.50 per barrel. The largest lobsters pack about fifty to the barrel, and the smallest from seventy-five to eighty. Those now bought here for shipment are caught up the bay between here and Castine and among the adjacent islands. A little later they will arrive in larger quantities from further east. The State laws prohibit the traffic in lobsters less than 10½ inches in length from August 1st to April 1st. In Massachusetts the prohibition of taking lobsters less than 10½ inches long extends through the whole year.—[Rockland Free Press.]

—Messrs. E. J. & G. W. Lawrence and H. P. Closson, of Fairfield, and Calvin Putnam, of Danvers, Mass., have purchased of Messrs. Bodwell, Allen & Bodwell, the Pittston steam mill, the Hobbstown timber lands and about 8,000,000 of logs. This mill is one of the finest on the river, and was newly fitted up a few years ago at great expense. The mill contains a gang, one circular saw, clap-board machine, two lathe saws, two shingle machines, a large and a small board-planer, and has a sawing capacity of about 50,000 per day. The new company will organize under the style of Lawrence, Putnam & Co., and Mr. H. P. Closson will have the general supervision of the mill. Messrs. Lawrence will continue their business at Somerset Mills, as usual, although they will spend a portion of their time at the Pittston mill. They have already some 2,000,000 logs at the mill, and 5,000,000 or 6,000,000 in Indian Pond and Moose River, and will manufacture 7,000,000 of lumber the coming season. They will commence operations as soon as the river opens.

—The Biddeford Times says: "For some months past the York Manufacturing Company have been turning out some of the finest gingham that have ever been placed on the market in this country; they have a soft, glow-like finish, and are perfectly fast colors and equal to the best Scotch gingham. At present they are manufacturing about fifty different styles of fancy gingham but will soon increase them to many times that number. There is a rich blending of colors which at once gives them a very pleasing effect. They have large and small figured plaids which will make up into nobby suits for the summer season. The people have long desired to obtain a high colored American gingham that they could rely upon, and now the York Co. steps forward with just what the public want. Although at present they have turned out fifty styles, they will soon carry the number to one hundred and fifty. This shows the confidence which the company feels in the worth of the article which they now offer. A month ago they were placed on the New York market, and received very favorable comment from a leading New York journal."

—The Lewiston Journal says: Meetings of two of our local manufacturing companies, to decide important matters, will be held next week, although the leading stockholders of both companies have already reached a conclusion, so far as they are concerned. The Auburn Foundry Company has already bargained for a piece of land at "The Point" in Auburn, near the little Androscoggin, and propose to remove their works to this site and run by steam this summer. They are cramped for room in their present quarters and can't fill more than half their orders. The plan is to erect large wooden buildings and put in a powerful steam engine. The Tobie & Clark Pump Manf. Co., propose, also, to build at the same place and take power from the Foundry Co. The pump business of this concern has grown to very large proportions. They made 2,000 pumps last year and will make 4,000 the coming year. Eight and ten per cent. dividends have been paid on the stock, and the company have a large reserve. They intend to increase their force considerably. We understand that a third party also stands ready to build a shop and take power from the Foundry Company.

Railway and Steamship Notes.

....It is reported that the new steamer State of Maine will run during the summer between Boston and Bar Harbor for the accommodation of tourists.

....Col. Greene went from Ottawa direct to New York, where he is perfecting his plans for commencing work on the Shore Line Railroad. Action by this city on the question of aid to the enterprise will shortly be necessary.—[St. John News.]

....A petition is being signed by many Maine ship owners and steamboat companies asking for a survey of Sandy Bay, at Rockport, Mass., for a breakwater at that port to protect such of the commerce as might from necessity desire to make a harbor there in stormy weather.

....An important event for Newfoundland, the first railway trip, took place on March 12th. The train ran out on the road as far as ballasted, a distance of about ten miles, and then returned to town, the party expressing themselves highly pleased with the success of the trip.

....It having been reported that the steamer Nahant, of the Boston and Nahant Line, was to run between Belfast and Mount Desert this season, the summer residents of the town are said to have guaranteed the company \$60.00 worth of travel if they will consent to run the steamer to that town, one-half of the sum having already been pledged.

....The Maine Central Railroad have commenced, with 100 men, grading and excavating for the foundation of their railroad shops at Portland. It is proposed to build a machine shop, car shop, and paint and blacksmith buildings, a portion of which at least will be of brick. They will be completed in season for the necessary employees to move there with their families before fall.

....The Piscataquis Observer says there is every indication that the Directors of the Maine Central Railroad mean to commence active operations upon the proposed branch from Dexter to Aroostook county via Dover early the present season. The drafting of the plans which parties have been at work upon at the office of Judge Danforth in Gardiner for two months, has been completed, and this week it was current here that several laborers had previously been engaged, to be in readiness to commence work at any time. This being the case, it would seem that the company are fully determined upon pushing forward this important scheme, thus opening up the richest farming lands in Maine, and affording easy railroad facilities to the great cities of the West.

.....The Railway statistics of Canada for the year 1880-81 make the following interesting showing: The total mileage on June 30, 1881, was 10,505. Of this, 7,293 miles are of railways in operation, 335 miles of railway under construction on which track is laid, and 2,910 under construction. The nominal capital was \$389,285,700, made up as follows: Ordinary share capital, \$128,091,520; preference, \$71,466,460; bonded debt, \$81,891,313; aid from Dominion and Provincial Governments, municipalities and other sources, \$104,866,406. This shows an increase over capital, as compared with previous years, of \$18,241,507. The capital per mile of railways completed and under construction is \$37,048. The number of passengers carried was 6,943,671 against 6,462,948 in the previous year—an increase of 480,722. The total train mileage for the year was 27,391,306 miles, against 22,477,449 miles in 1879-80—an increase of 4,873,857 miles. The tonnage of freight handled was 12,065,323, against 9,938,858—an increase of 2,126,465 tons. The earnings of the railways in 1880-81 were \$27,987,509 against \$23,536,639, the increase being \$4,450,770. The earnings per mile of railway under traffic were \$3,859 in 1880-81, against \$3,405 in 1879-80, showing an increase of \$424 per mile.

....The regular half-yearly general meeting of the Grand Trunk Railway Company was held in London on the 30th of March. The president, Sir Henry Tyler, in his address, said that the road had lost, directly and indirectly, £250,000, by the late war of freight rates; but by the initiation of a reduction of passenger rates the directors had been enabled to develop the Chicago and Grand Trunk line and obtain an increase of £46,000 from this source. The gross receipts from the passenger traffic had been £419,000, and for goods £621,000. The working expenses had increased by £40,000, leaving £824,000, as against £783,000, for the half year of 1880. The increase in the working expenses had been in consequence of the additional amount which they had been asked to do, and partly in consequence of the higher prices of wages and materials. There is due the road from the Canada Southern Railroad the sum of £50,000, on account of the International Bridge. The number of passengers carried one mile during the half year had been 101,000,000, as compared with 81,000,000 in the corresponding half

year of 1880. The regular passenger business had also increased during the half year, and the circumstance was a source of great satisfaction to the board. As regarded the freight traffic, they had carried 26,000,000 tons for one mile in excess of the corresponding period of 1880. The average receipts per ton per mile had been the least they had ever received, having been only 63 per cent., a loss of £129,000 on freight traffic alone for the half year. In 1877, the number of cattle carried was only 13,000, but in 1880 it had reached 50,000, and in 1881, 52,240, the total value, including sheep, being £900,000.

....A recent issue of "The Colonies and India" says: The rapid prosecution of the works of the new railway across Newfoundland has brought into view the possibility of shortening by something like a thousand miles the length of the sea voyage between Europe and America. Indeed, the American firm of contractors who have undertaken the construction of the railway from St. John to the west coast are already endeavoring to secure the co-operation of the authorities of both the Dominion of Canada and the Island of Newfoundland in organizing a system by which the trains from St. John's to the station at the western terminus of the Newfoundland Railway may be there taken on board a steamer specially constructed for the purpose, and carried across to the opposite coast of Cape Breton Island, whence a short branch line would connect with the whole of the systems of railway in Canada and the United States. The necessity of a bridge across the Gut of Canso, which divides Cape Breton Island from the mainland of Nova Scotia, would be the only difficulty in the way of carrying out this scheme; but such a bridge would present no greater engineering difficulties than the railway bridge over the St. Lawrence at Montreal. The steamers which would have to be employed to carry the train across the mouth of the St. Lawrence have long been in use on the Great Lakes for carrying the trains to and from the Canadian and American railway systems, and their construction for, and navigation in, the proposed new service would be a matter of no difficulty. If this scheme is carried out the sea voyage between Queenstown and any part of Canada or the States will be shortened by about 1000 miles, and the most difficult and tedious part of the voyage, in which fogs are usually most prevalent, would be avoided. This reduction of the sea voyage would mean a saving of something like three days in the time taken in the transport of mails and merchandise between New York and Queenstown, while the commercial relations of Newfoundland with the whole of Canada and Europe would be multiplied indefinitely. There is, no doubt, a great future in store for Newfoundland, and the railway will confer inestimable advantages upon the Colony. If this great work can be utilized in the manner suggested as a link in the line of communication between Europe and America, it will prove itself not only of colonial, but of imperial and world-wide advantage."

Dips, Spurs and Angles.

—Denver is now a port of entry. The city council will at once proceed to make an appropriation for the erection of wharves and dry docks.—[Laramie Boomerang.

—A Sacramento physician receives the following compliment from one of his local newspapers: "Dr. M. is a self-made man; the only schooling he ever received for the medical profession he acquired by a long and varied experience as Captain of a gravel boat and bank boss on the canal, from which he stepped to the arduous and responsible position he now fills, and in which he has met with the noblest success."

—An editor in the mountains who isn't up in the isms, who isn't a philosopher, a scientist, a sporting man, a religionist, a prize-fighter, a thug, a mining expert, an artist and an art critic, a railroad man, a warrior, a navigator, a machinist, or a man-of-all-work and no play, is in a poor row of stumps all the time, and he is oftener representing the under than the upper dog in the fight. Now, if any of our eastern brethren have any idea that a western editor's pathway is one of those flower-bedecked highways he reads of, he had better disabuse his mind of the foolish hallucination at once, and take in a little of the actual situation pointed out above. It will save him some trouble, and possibly much disappointment. Good people everywhere should pray for the western journalist, and pray with all their might at that.—[Leadville Democrat.

Hotels and Summer Resorts.

A hotel with four hundred sleeping rooms and a dining room that will accommodate a thousand is something of a hotel for Maine, but that is about the size of the new Rodick House at Bar Harbor.

At Fort Popham, now that the ice is out of the river, the Popham Company will immediately proceed to build a pier for the accommodation of the "Star" opposite to where the billiard hall was situated last summer. The pier will cost about \$1000. Then the sand hills, so long a nuisance to the summer tourists, will be leveled; the grove near the beach put in fine condition and in the center of the field nearly opposite the site of the pier a cafe will be built in neat style, which will be ornamented and contain a billiard room, bowling alley and restaurant. When these improvements are made Popham will look a village maiden "All dressed up in her Sunday clothes."—[Bath Independent.

Nuggets.

* *We are indebted to Hon. Geo. W. Ladd for valuable public documents.

* *A newspaper called the Lakeside Mirror is soon to be started at Grand Lake Stream.

* *The Wm. H. H. Rice Post, No. 55, G. A. R., has been established during the present week at Ellsworth.

* *The Veazie mill privilege at Oldtown has been bonded to the Millford Land and Lumber Company for \$50,000.

* *We are in receipt of a magnificent specimen of copper sulphurets from the property of the Neptune Mining Company.

* *The Penobscot Savings Bank have moved into handsome and commodious quarters over the Kenduskeag National Bank.

* *Formerly chief engineers, pilots, etc., had to pay ten dollars for a certificate. A bill has now passed Congress reducing the fee to fifty cents. This also applies to assistant engineers, mates, etc.

* *The port of Bangor now presents a lively aspect. In the brief time our harbor has been open to navigation considerably over one hundred vessels have arrived and business along the river front is now very active.

* *Messrs. Glynn & Reynolds, the enterprising young stationers, are in want of a practical book-binder. If they are successful in obtaining such a person they will reopen the Bangor Book-Bindery in Pote's block.

* *Patents issued to Maine inventors under date of April 11, 1882, reported for the MINING JOURNAL by Wm. Franklin Seavey, Solicitor of Patents, Bangor: James O. Brown, Bangor, Velocipede; Silas A. Morton, Friendship, Ice Elevator. Whole number issued for the week, 373.

* *We have received from Wm. E. Brown, of this city, a sample package of Fletcher's Ink Extracts, dissolved them in water according to directions, and find that they make a most excellent ink. These extracts are used by the leading banking and financial corporations and any one in want of a really fine ink should try a package.

* *F. L. Bartlett, State Chemist, at Portland, now has superior facilities for chemical and metallurgical work. From his past experience in mining and smelting, he knows well the wants of mining companies and is now prepared to furnish mining machinery of all kinds and to erect smelting or concentrating works. Mr. Bartlett will also sell gold, silver, zinc and lead ores on commission.

* *Wm. H. Earle, manufacturer of corporation seals, rubber stamps, etc., has removed from Granite Block to No. 53 Exchange street, where he would be pleased to see all his friends. Here in addition to his regular business, he is running a carpet cleansing machine, which consists of a large revolving cylinder in which several carpets are placed and in a few hours time the dust and dirt are all removed without any tearing of the carpets.

* *The Ishpeming (Mich.) Iron Agitator says: The Little Champion diamond drill which is operating at the Columbia mine, near Republic, has reached a depth of 1200 feet, the deepest hole yet put down by any machine on the upper peninsula. The time occupied in the work was 75 days, which is doing remarkably well. No accident of any kind occurred to defer the work, and the record for the drill is a remarkably good one.

* *Now comes the busy time with the florists. Any one contemplating purchasing anything for the garden will do well to call at F. H. Duffy's nursery on the Hampden Road. He has a

large variety of plants and a fine stock of extra size apple trees of the choicest varieties. It is a well known fact that trees transplanted in the neighborhood where they were grown are much more liable to grow and bear fruit than those imported from other states.

*The American Newspaper Directory, which will be issued next month by Geo. P. Rowell & Co., of New York, will contain the names of 10,611 periodicals in the United States and Territories, which is a gain of 344 in the year just past. The number of daily papers has increased in a somewhat larger proportion, and is now represented by a total of 996 against 921 in 1881. The largest increase has been in New York—10 dailies, 29 of all sorts. Illinois and Missouri show a percentage of gain which is even greater, while Colorado leads all others in the percentage of increase, both of daily and weekly issues. California, Nebraska, Nevada, Oregon, South Carolina, Tennessee, Vermont, and West Virginia have fallen behind 1881 in the total number of periodicals issued. In Georgia, Maine and Massachusetts the suspensions have exactly counterbalanced the new ventures. In every State not mentioned above, and in the Territories, there has been an increase.

*Curious things often, interesting things always, and valuable things sometimes, are found in the vast quantities of waste shipped to the paper mills to make pulp. A workman recently found a good pair of opera glasses in a consignment of waste at a paper mill in this county. It is no uncommon occurrence to find postage stamps which have accidentally gone into the scrap basket. An Auburn clergyman recently explored these waste heaps in search of the curious, and was rewarded by finding an old and unique work on "Hell," illustrated with a diagram of the sulphurous region, showing the temperature in various parts of it, and the more desirable or undesirable locations for various degrees of wickedness, according to the "revelations" of the author. Rev. E. C. Bolles, D. D., the famous pulpit orator, has a standing order for all the title pages of books and all the engravings, if not too badly soiled, found in the waste at this mill, and makes an annual pilgrimage to the mill to look after his treasures. Two hogsheds were recently shipped to him.—[Lewiston Journal.

*Lippincott's Magazine for May opens with an article on the "Ranches and Rancheros of the Far West," by George Rex Buckman, which is beautifully illustrated, and, besides giving a lively description of pastoral life in Wyoming Territory and other parts of the Northwest, offers much information in regard to the resources of the country and the extent to which it is being peopled by a superior class of settlers—men of education and refinement—from England and from the United States. "The Land of Cotton," by William I. Murfree, Sr., a still more instructive paper, and one which will be read with particular interest at a time when public attention has been drawn to some of the risks attending the production of the great staple of the Southwest. In an article on "Sea Serpents" C. F. Holder, of the American Museum of Natural History, revives the testimony of observers in regard to the actual existence of such creatures in connection with recent discoveries of fossil remains and in the light of scientific analogies. William H. Rideing writes with knowledge and impartiality of "Things in Which We Differ" from the English, showing the points in which each nation has the advantage. Edward C. Bruce has an excellent and suggestive paper on "Our Flower-Gardens," and Miss P. D. Natt gives an entertaining sketch of "A May Day on the Simplon." In the way of fiction, besides the serial, "Stephen Guthrie," which loses nothing of its interest as it approaches the conclusion, there are three short stories,— "The O'Shaughnessy Diamonds," by William M. Cooke, a well-constructed and exciting tale; "Mr. Shaddock's Elopement," by Edward W. Flagg, in which village life and character are cleverly portrayed; and "Two Quaker Weddings," by George J. Varney. The poetry, by Frances L. Mace, Howard Glyndon, and Charlotte Fiske Bates, is appropriate to the season, and the "Gossip" and literary notices should not be overlooked.

Weight of Lumber.

Messrs. H. K. Porter & Company, of Pittsburg, Pa., have issued a little book containing much interesting and useful information, from which we extract a few items relating to the weight of logs, lumber and cord wood. The weight of green logs to scale 1,000 feet, board measure, is given as follows: Yellow pine (Southern), 8,000 to 10,000 pounds; Norway pine (Michigan), 7,000 to 8,000 pounds; white pine (Michigan), off of stump, 6,000 to 7,000 pounds; the same out of water, 7,000 to 8,000 pounds; white pine (Pennsylvania), bark off, 5,000 to 6,000 pounds; hemlock (Pennsylvania), bark off, 6,000 to 7,000 pounds. The weight of 1,000 feet of lumber, board measure, is thus given: Yellow or Norway pine, dry, 3,000 pounds;

green, 5,000 pounds; white pine, dry, 2,500 pounds; green, 4,000 pounds. The weight of one cord of seasoned wood, 128 cubic feet per cord, is stated to be: Hickory or sugar maple, 4,500 pounds; white oak, 3,850 pounds; beach, red oak or black oak, 3,250 pounds; poplar, chestnut or elm, 2,350 pounds; pine (white or Norway), 2,000 pounds; hemlock bark, dry, 2,200 pounds.

Closing Prices at Boston Stock Exchange,

FOR EACH DAY OF THE WEEK ENDING WEDNESDAY, APRIL 19, 1882.

NAME.	Thurs.		Fri.		Sat.		Mon.		Tues.		Wed.	
	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.	Bid.	Ask.
Albion	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Atlantic L. S.	14 1/2	14 3/4	14 1/2	14 3/4	14 1/2	14 3/4	14 1/2	14 3/4	14 1/2	14 3/4	14 1/2	14 3/4
Atlas	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4
Blue Hill Copper	12	12 1/2	12	12 1/2	12	12 1/2	12	12 1/2	12	12 1/2	12	12 1/2
Brunswick	12	12 1/2	12	12 1/2	12	12 1/2	12	12 1/2	12	12 1/2	12	12 1/2
Calumet & Hecla	240	242	235	238	239	242	239	242	239	242	235	238
Catalpa	49c	50c	45c	50c	45c	50c	45c	50c	45c	50c	40c	50c
Central	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Copper Falls	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Contentment	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4
Douglass	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4
Dana	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4
Duncan Silver	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4
Empire	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4
Franklin	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4
Harshaw	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Huron	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4	1 1/2	1 3/4
Hanover	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
National	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4	2 1/2	2 3/4
Osceola	34	35	33 1/2	34	33	34	33	34	33	34	32	34
Pewabic	12 1/2	12 3/4	12 1/2	12 3/4	12 1/2	12 3/4	12 1/2	12 3/4	12 1/2	12 3/4	12 1/2	12 3/4
Phoenix	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4	11 1/2	11 3/4
Pontiac	45 1/2	46 1/4	45 1/2	46 1/4	45 1/2	46 1/4	45 1/2	46 1/4	45 1/2	46 1/4	45 1/2	46 1/4
Quincy	45 1/2	46 1/4	45 1/2	46 1/4	45 1/2	46 1/4	45 1/2	46 1/4	45 1/2	46 1/4	45 1/2	46 1/4
Ridge	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4
Silver Islet	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4
Star	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4
Sullivan	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4	17 1/2	17 3/4

FLETCHER'S INK EXTRACTS.

Rose Scarlet, 50c; Green, 50c; Violet, 35c; Black, 55c; Blue, 35c, for package making a pint of ink. Orders should be sent to W. E. BROWN, Box 352, Bangor, Me. U. S. and Canadian stamps taken.

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Gold, Silver, Copper, Tin, Lead,
Iron, Etc.;

and it will be our aim to bring the merits and advantages of these various enterprises to the attention of capitalists.

If necessary, the JOURNAL will be enlarged from time to time, and its value as a representative industrial journal will be steadily increased. In the meantime subscriptions will be received at the low rate of \$2.00 a year in advance.

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MAINE MINING JOURNAL,

Bangor, Maine.

EASTERN MAINE RAILWAY.

BANGOR and BUCKSPORT.

CHANGE OF TIME, April 10.

	A. M.	A. M.	P. M.	P. M.
Leave Bucksport,	5.30	10.00		5.00
Arrive Bangor,	6.42	11.15		6.05
Leave Bangor,	7.35		2.00	7.15
Arrive Bucksport,	8.45		3.15	8.25

The 3.30 A. M., and 5.00 P. M., trains from Bucksport arrive in Bangor to connect with trains east and west. The 7.35 A. M., and 7.15 P. M., trains from Bangor await arrival of trains from the west.

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Stage leaves Bucksport at 9.30 A. M., or on arrival of morning train from Bangor.

Stage leaves Blue Hill at 12 M. to connect with 5 o'clock train for Bangor.

HILL, GOOGINS & CO.
Bucksport, December 1st, 1881.

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Office at Oldtown, Me.

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Capital, 500,000 Shares, \$5 each; assessable.

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Bucksport, Me. Incorporated, Feb., 1880.

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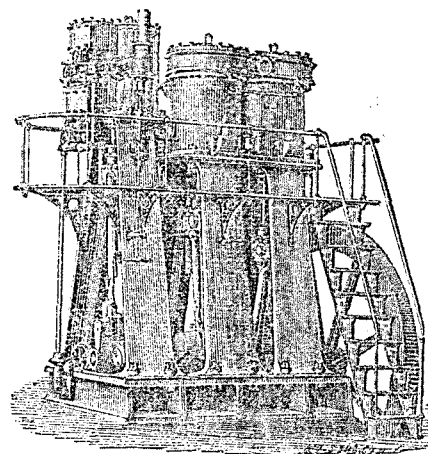
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